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## Business Plan

March 1997



for the historic

# Schooner *Ernestina*

in service to the people of the Commonwealth of Massachusetts

GOVERNMENT DOCUMENTS  
COLLECTION

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MASSACHUSETTS SCHOONER *ERNESTINA* COMMISSION  
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## EXECUTIVE SUMMARY

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The Schooner *Ernestina* Commission operates a 156' historic schooner in coastal waters of New England. The *Ernestina* is a one hundred three year old Grand Banks fishing schooner originally built at the James and Tarr yard in Essex, Massachusetts and launched February 1, 1894. The schooner is owned by the Commonwealth, governed by a nine member gubernatorially appointed Commission placed in the Department of Environmental Management and operated from an office in *Ernestina*'s home port of New Bedford. She is the official vessel of the Commonwealth of Massachusetts, a National Historic Landmark designated by the U.S. Department of the Interior, part of a newly formed New Bedford Whaling National Historical Park, and exemplifies a public-private partnership involving a wide range of individuals, corporations, foundations and state agencies.

The mission of the Schooner *Ernestina* is to establish educational, cultural and experiential programs in a context that celebrates human diversity, creativity, value and dignity. The Commission is charged with preserving, maintaining and operating the vessel so as to accomplish this.

This paper focuses on a comprehensive plan to develop the Schooner *Ernestina* programs, operations and space in order to serve Education Reform and advocate for environmental literacy in the Commonwealth of Massachusetts. Our record of service over the 1994, 1995 and 1996 sailing seasons demonstrates the *Ernestina*'s capacity as a mobile laboratory --or floating classroom-- for hands-on teaching of math, science, ecology, history, as well as the specific skills that put lessons learned to practical use. Further, the *Ernestina* experience conveys to all participants in a non-preachy way the value of teamwork and cooperation, of sharing common goals, of perseverance, all of which the ship herself personifies.

*Ernestina* is an active partner with the PALMS (Partnership Advancing the Learning of Math and Science) leadership team based in the New Bedford Public School administrative offices. An *Ernestina* staffer serves as an active member of SAGEE (Secretary's Advisory Group on Environmental Education) and participates on the community outreach committee. Programs offered in collaboration with the Department of Education, UMASS Boston Urban Scholars Program, UMASS Dartmouth Biology Department and others are helping to set high standards for *Ernestina*'s educational offerings and have special bearing on how onboard educational programs have been developed. These partnerships have opened channels for ideas and access that enhances teachers' efforts to bring relevance to their students. At the same time *Ernestina* staff have built a stronger program that reinforces the educational initiatives in the schools based on statewide curriculum frameworks in math, science and technology and benchmarks in environmental literacy.

A comprehensive approach is needed in order to take advantage of the Schooner *Ernestina* as a resource as well as extend much broader goals such as systemic change called for in Education Reform and capacity building in the community.

## NARRATIVE

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### The Problem

According to the Benchmarks on the Way to Environmental Literacy produced by SAGEE (Secretaries' (EOEA) Advisory Group on Environmental Education) 1994, "Environmental issues will be a central concern in the 21st century. Most social and economic issues will have a major environmental component. Therefore, it is becoming increasingly imperative that our citizenry have a well developed environmental literacy. That is, our citizens must have a strong working knowledge of how the natural systems of our planet work and how human activity affects may be harmonized with the environment. Likewise, people need the skills to investigate and evaluate problems, and to take effective action. They need to develop the habits of mind that will enable them to become wise, empowered citizens who will act to keep the planet healthy..."

### The Challenge

"Education for sustainability is a lifelong learning process that leads to an informed and involved citizenry having creative problem-solving skills, scientific and social literacy and commitment to engage in responsible individual and cooperative actions. These actions will help ensure an environmentally sound and economically prosperous future."

According to Education for Sustainability: An Agenda for Action, a report initiated by the National Forum on Partnerships Supporting Education about the Environment in 1994, implementing education for sustainability depends on six core themes namely (1) lifelong learning, (2) interdisciplinary approaches, (3) systems thinking, (4) partnerships, (5) multicultural approaches, and (6) empowerment.

Developing environmental literacy as well as educating for sustainability is a major task for us as a society. Many parts of our society including home, family, school, community, church, workplace, interest groups and the media can play a major role. Ernestina has attributes that place her in a particularly unique position to effectively take up the challenge through both education and advocacy while, at the same time, engendering quality of life.

Encouraging developments in school reform are taking place in Massachusetts through the Common Core of Learning and Curriculum Frameworks and the comprehensive efforts under the PALMS project to emphasize instruction based on the knowledge that learners construct their own understanding through hands-on experiences that encourage the development of critical thinking skills and use of authentic tasks of inquiry, reasoning, and problem solving that reflect real world issues. The Secretaries Advisory Group on Environmental Education (SAGEE) produced Benchmarks on the Way to Environmental Literacy for school-based educators and leaders of youth organizations. However, effective implementation of reform and advancement of environmental literacy will take place only with adequate professional development, collaboration by community partners and through real learning experiences.



This document focuses on organizational requirements for enabling the historic Schooner *Ernestina ex-Effie M. Morrissey* to play a comprehensive role in expanding the capacity of primary and secondary schools and institutions of higher learning for implementation of educational reform and the general acquisition of environmental literacy by the public.

## THE ORGANIZATION

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The Schooner *Ernestina* Commission is a nine member agency of the Commonwealth of Massachusetts enabled by legislation found in Chapter 6 of the General Laws signed by Governor William Weld January 13, 1994. The Commission is placed in the Department of Environmental Management and includes designees of Commissioner Peter Webber of DEM (Peter Smith, Martin Suuberg, designees), Commissioner Robert Antonucci of the Department of Education (John Braman, designee) and Ms. Mary Jane McKenna, Director of Office of Travel and Tourism (Peter Lee, designee), and six other residents of the Commonwealth of Massachusetts. The six other commissioners are H. James Brown (Chair) of Cambridge, Carl Cruz (Vice-Chair) of New Bedford, Peter Lawrence (Treasurer) of Duxbury, Pauline Macedo (Secretary) of New Bedford, Marion McConnell of Cotuit and Blair Brown of Newton. The commissioners are appointed by the governor to govern the operation of the U.S. Coast Guard inspected 156' gaff rigged Grand Banks fishing Schooner *Ernestina*.

The Schooner *Ernestina* Commission is supported through a diverse range of funding sources. The enabling legislation (see appendix) allows the Commission to charge fees or tuition to students and passengers, admission fees for visits by the public and to receive grants from municipal and federal agencies as well as private foundations. Schooner *Ernestina* maintains a membership program started in the summer 1994, and is growing steadily. The Schooner *Ernestina* relies on funding from both the public and private sectors to remain viable and expand programs to service the community. Donations to Schooner *Ernestina* Commission are deductible under Section 170(b)(1) as defined by Section 170(c)(1) of the Internal Revenue Code.

**The mission of the Schooner *Ernestina* Commission** is to preserve, restore and operate the historic Schooner *Ernestina*, ex-Effie M. Morrissey, and to establish educational, cultural and experiential programs in a context that celebrates human diversity, creativity, value and dignity.

**The mission of the Department of Environmental Management** is to exercise care and oversight for the natural, cultural and historic resources of the Commonwealth and to provide quality public recreational opportunities which are environmentally sound, affordable and accessible to all citizens.

To carry out its mission, DEM investigates, analyzes, promotes and demonstrates the wise stewardship of the Commonwealth's natural cultural and historic resources; develops and maintains public access to such resources in the rural, suburban and urban areas of the Commonwealth; provides public recreation and education programs; enhances the quality of these resources through statewide resource planning, protection and regulatory programs; and manages, protects and

conserves all public lands, waters and facilities that have been entrusted to the care of the department for this and future generations.

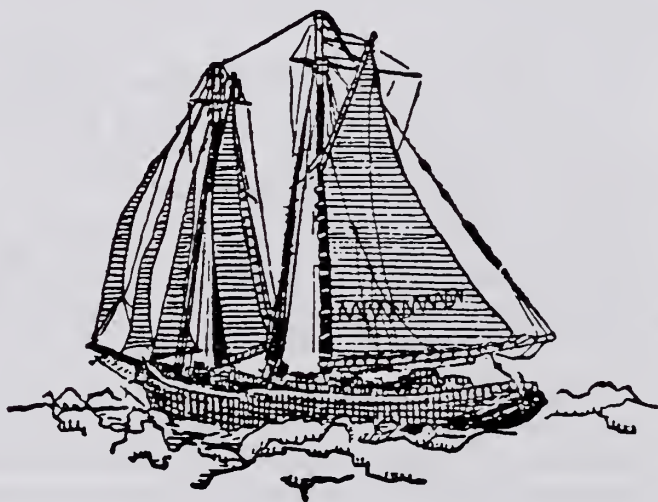
## THE VESSEL

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On February 5, 1894, a single line of type in a corner of the Gloucester Daily Times recorded the addition of a schooner to the Gloucester, Massachusetts fishing fleet: "The new schooner for J.F. Wonson and Co. has been named *Effie M. Morrissey*." This was the commonplace birth of a schooner that would become famous as a fisherman, arctic explorer and trans-Atlantic packet. Now, one hundred three years later, the ship is sailing between Massachusetts seaports with a mission of education. See historical summary in appendix.

Schooner *Ernestina* came home to Massachusetts as a gift to the people of the United States from the republic of the Cape Verde Islands in 1982 as a result of a broad based effort by Cape Verdean organizations, participants of Bob Bartlett's famous voyages to the Arctic, the United Nations and maritime preservation societies. An award winning restoration lead to a National Historic Landmark designation in 1986. *Ernestina* received her document as US Coast Guard inspected passenger (subchapter T & R) vessel in 1994 and now is part of the New Bedford Whaling National Historical Park in 1996 (see authorizing legislation in appendix).

*Ernestina* is a 112' 98 gross ton passenger vessel capable of ocean passages with overnight berths for up to 42 persons and a day sail capacity of 100 persons. She normally sails with an educational staff of 10 to 12 persons. The staff is gender balanced and racially diverse. See copy of USCG Certificate and *Ernestina* fact sheet in appendix.





## HOMEPORT

The homeport of *Ernestina* is legislated as the city of New Bedford. The ship docks at New Bedford State Pier, a property managed by the Waterways Division of the Department of Environmental Management. The *Ernestina* Commission utilizes a trailer on State Pier for office space and maintains storage space in the warehouse for supplies and equipment.

*Ernestina* is located at a berth alongside the north face of the State Pier adjacent to Tonnessen Park, a park constructed and maintained by the city of New Bedford. The New Bedford Lightship is alongside the State Pier further east and in proximity.

The Mayor's Office, Harbor Development Commission, State Pier, Tourism Office, Chamber of Commerce, Waterfront Historic Area League and others are facilitating efforts to link resources together on the waterfront. *Ernestina* and the Lightship are both visible to motorists approaching the historic district on route 18 and both ships are visible from exhibit space within the New Bedford Whaling Museum. *Ernestina* and the Lightship are directly outside the Tourism Office located on Fisherman's Wharf, home to the Fisherman's Seafood Coop and the passenger ferry ALERT II (to Cuttyhunk).

As a protected port of refuge, New Bedford is unequaled. The hurricane wall and gates at the harbor entrance make the harbor the best home in the hurricane season. The facilities at state pier can accommodate the logistical needs and offer more than adequate space for parking.



## OPERATING AREA

The operating area of the Schooner *Ernestina* is primarily along the coast of New England from Cape Ann, MA to Providence, RI. The schedule is designed to create a regular and reliable service to coastal communities. As relationships with schools, local organizations and municipalities grow, *Ernestina* will tailor programs to meet the needs of the communities and seek collaborative effort with teachers to build curriculum or chambers of commerce to enhance festivals, etc. Some key ingredients for strong relationships include predictability in so far as presence and quality of programs is concerned and common ownership enhanced by collaborative effort.

The *Ernestina* Commission considers projects that take *Ernestina* out of home waters in relation to mission and feasibility for the months of June and September and the winter months.

### *Distance Table*

The following table shows the centrality of New Bedford as a home port and base of operations. Travel times show that the ship can reach any port in the operating area in a day. Shore support can reach the ship within an hour and a half by highway.

| <b>Community</b>  | <b>Distance from New Bedford</b><br><i>by Water in Nautical Miles</i> | <b>Travel Time</b><br><i>minimum in hours</i> |
|-------------------|-----------------------------------------------------------------------|-----------------------------------------------|
| Gloucester        | 83                                                                    | 12                                            |
| Boston            | 85                                                                    | 12                                            |
| Quincy            | 80                                                                    | 11                                            |
| Nantucket         | 53                                                                    | 8                                             |
| Martha's Vineyard | 28                                                                    | 4                                             |
| Buzzard's Bay/MMA | 24                                                                    | 4                                             |
| Providence        | 58                                                                    | 8                                             |
| Fall River        | 54                                                                    | 8                                             |
| Mystic            | 60                                                                    | 9                                             |

*Distance table from New Bedford.*



## EDUCATIONAL PROGRAM DESCRIPTIONS

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### *From the Estuaries to the Banks: Ernestina makes connections*

The Massachusetts Schooner *Ernestina* offers multi-disciplinary, hands-on education programs tailored to meet the specific needs of schools, colleges and other educational and cultural organizations. Program offerings range from dockside visits for any age, daysails for sixth grade and up and five day passages at sea from coastal communities of Massachusetts, from Cape Ann to Mt. Hope Bay and beyond. Each structured education program uses a series of up to six learning stations to explore the environment of the ship and the world around it.

Aboard the *Ernestina*, the official vessel of the Commonwealth, students of all ages use the ship and its rich and varied history as a platform to study the marine environment and human impacts. They gain confidence and self esteem in learning how to orient themselves in the natural world and solving real-world problems. Many find important cultural connections through their shipboard experience.

### **Educational Mission of Schooner Ernestina**

The mission of the Schooner *Ernestina* Commission is to establish educational, cultural and experiential programs in a context that celebrates human diversity, creativity, value and dignity.

The essence of *Ernestina's* mission extends from the vessel's phenomenal track through history. She has served as a commercial vessel engaged in the honest objectives of fishing the banks and coastal commerce. Her northern expeditions have made manifest the spirit of the explorer, willing to take astonishing risks in the pursuit of knowledge. She has carried immigrants to a new land rich with opportunity. Now, her preservation and continued use help link us to the lessons of the past and the promise of the future. The ship is the embodiment of the ties of culture, family and tradition that encircle the American immigrant epoch.

On a more technical level, *Ernestina's* working lives provide vivid examples of technological solutions to complex problems: catching, preserving and delivering to market 125 tons of fish (1890's); traveling to within 600 miles of the north pole (1930's and 40's); transporting cargo and passengers across 3000 miles of Atlantic Ocean on a regular basis (1950's and 60's). The concepts of math, science, technology, economics, and resource management employed by *Ernestina's* mariners over the decades are powerful tools for *Ernestina's* teachers and students of today. At every turn, learning on board Schooner *Ernestina* is somehow amplified and energized by the powerful overlay of 103 years of human ambition, struggle and triumph.

### **Equity**

Equity in education means creating an environment in which all students can prepare themselves for the challenge of leading a productive life. *Ernestina* can foster equity by creating initiatives and programs which take into consideration race, gender, national origin, physical condition or attributes, age, class and/or socio-economic status to ensure full participation in *Ernestina's* programs.



### ***Multicultural Education***

Multicultural education is a process which deliberately infuses history, beliefs, traditions and values of diverse cultures and peoples into all aspects of the learning experience. It enables persons to accept, respect and value their own cultural uniqueness and that of others. It provides members of the community with the critical thinking skills they need in order to challenge the racism, stereotypes and biases that plague society.

## **Program Objectives**

- To create, develop and implement relevant and effective educational programs offered both onshore and aboard Schooner *Ernestina* and to make these programs available and accessible to teachers and learners of all ages and walks of life throughout the Commonwealth and, when practical and possible, beyond its boundaries.
- To realize the multi-disciplinary potential of Schooner *Ernestina* as an educational entity with activities that extend across subject areas and integrate various spheres of knowledge and levels of understanding.
- To offer these activities with continual attention to content standards such as the Massachusetts Curriculum Frameworks and quality educational pedagogy such as cooperative learning, inquiry based and group problem solving approaches, etc.
- To focus concurrently on issues of inclusion and equity through all grade levels during subject related and task oriented instructional activity.
- To collaborate with higher education partners to improve the way prospective and in-service public school teachers are prepared and enabled to grow in their profession.
- To provide educators and administrators with extensive professional development opportunities to stimulate schoolwide, district and regional leadership for the usage of Schooner *Ernestina* as an important educational resource: to facilitate new state standards required for teacher certification/recertification and to support the implementation of the Curriculum Frameworks and assessment.
- To continually foster partnerships among schools, colleges, adult learning centers, businesses, museums and cultural institutions, parents, students and community organizations by acting as a link between them, in our areas of common interest.

## **Program Offerings**

### ***Working on the Water\*\****

~ a dockside program

**Working on the Water** is a dockside hands-on technology/history program for up to 65 participants tailored for 4th and 5th graders. The program uses the 103 year-old

ERNESTINA and the half-scale replica whaling bark, LAGODA, housed in the New Bedford Whaling Museum, for activities that examine two technologies: fishing and whaling. The curriculum was developed through a grant from the Island Foundation of Marion, MA. with additional support from the Mass. Dept. of Education. It is jointly produced and hosted by education staff members of Schooner *Ernestina* and the New Bedford Whaling Museum and is presented under the auspices of the New Bedford Public Schools and the local PALMS leadership team. Activities and pre-visit materials address areas of local history, social studies and economics. The program is adaptable to any of *Ernestina's* many ports of call.



## ***Leaving a Wake\*\****

### **~a day sail program**

Aboard the Schooner *Ernestina* students investigate what makes this Water Planet work. As *Ernestina* takes us not only from place to place, but to an era when wind and muscle were the energy and sail was the engine for commerce, exploration, immigration and adventure, we can begin to understand the forces, human and natural, that have shaped today's environment.

As we travel in the wake of the all those who have explored and exploited our Massachusetts shore, students ask the same questions asked by the earliest voyagers on our shores: What lives here? Why is it here? What does it need to live? How have these areas changed over time and what has caused these changes? These questions are of critical importance to our region's future. To understand our water planet means to understand what makes the oceans tick: temperatures, soundings (depth), life on the ocean floor, life in the skies over the ocean, sea life and the food webs which make up this complex environment.

**Leaving a Wake** is a hands-on underway daysail program on Schooner *Ernestina* for up to 65 participants designed to explore the marine world in both historical and present day contexts for 6th through 12th grade. Students step on board and "join the crew", breaking into smaller groups to explore the marine world and shipboard life. Six learning stations are visited by the students including *Work to be Done*, *Orientation*, *Ernestina in the Biosphere*, *Leaving a Wake*, *Molecules in Motion*, and *Making a Passage: Why We Do It*. The **Leaving a Wake** curriculum development was funded, in part, by the Massachusetts Environmental Trust and the Massachusetts Department of Education.

## ***Expedition to the Water Planet***



### **~ a multi-day program**

Students and attending staff are divided into three watch groups, each under the direct supervision of a ship's watch officer and crew. Students are given a complete orientation to the vessel, including safety and emergency procedures. They receive continual training in line handling, sail handling, navigation and other seamanship duties. Each group is on watch twice daily in a rotation of four to six hour shifts. While on watch, students work together with the regular ship's crew to perform all the necessary functions of running the ship. As students increase their seamanship skills, they will be assigned responsibility as "junior officer" on a rotating basis.

Individual watches work as teams to solve problems and answer questions posed by the group. They utilize the ship and equipment along with talents they bring with them onto the ship to address questions, design experiments, collect data and develop answers.

Classes are held twice daily, in mid-morning and mid-afternoon. These are "all-hands" events. Students are relieved from deck duty to attend class. The ship's staff facilitate class explorations in marine science, literature and history as per a curriculum syllabus tailored to the special interests of the particular group. Classes are structured as group discussions, in which students are encouraged to respond to the subject matter and the seafaring experience on board, and to express their questions or ideas to the group. An evening session is specifically designated for a wrap-up and reflection of the day's activities.

## ***The Maritime Matrix: Math, Science and Sociology Afloat***

### **~ a full day workshop offering for teachers**

This program focuses on the principles of math and science along with the 103 year multi-cultural history of the ship and her people. Viewing the ship in functional roles as an application of technology for the purposes of transportation, economic gain, social advancement and scientific discovery, participants take part in the operation of the Schooner *Ernestina* from her many ports of call along the New England coast.

Following a program developed in conjunction with PALMS (Partnership Advancing the Learning of Math and Science) initiative activity, everything from the allocation of human resources to the calculation of vectors can be included in the hands-on activities aboard the schooner. Consideration of the schooner as a *coastal entity*, a tool used in the coastal economy and impacting the coastal environment, is central to this program's teaching and learning. Photographic and literary archival material will review the 103 year history of *Ernestina*.

This program has been offered with attendant Professional Development Points (PDPs) under the auspices of the Mass. Department of Education.

## ***Sea Connections:***

### **~a ten day Summer Institute for Teachers**

During this ten day program a marine curriculum focusing on Massachusetts waters is designed and pilot tested by up to 24 participating teachers. Four days are spent ashore working with Institute staff and PALMS teacher leaders followed by five days at sea aboard the Schooner *Ernestina*. A tenth day ashore provides the opportunity to process shipboard activities, network and prepare for school use of the curriculum.

This project joins together the University of Massachusetts at Dartmouth, the Lloyd Center for Environmental Studies, New Bedford Public Schools, a Project PALMS site, and the Schooner ERNESTINA with the goal of improving science, technology and mathematics education in the region.



Post evaluations of Sea Connections in 1996 by Lesley College indicate notable increases by participants in all areas targeted by Project PALMS including content, instructional strategies and knowledge of the frameworks and PALMS. Sea Connections was the highest ranked institute statewide for curriculum frameworks and Project PALMS knowledge increase compared to all other institutes offered in 1996. Schooner *ERNESTINA* will extend work started in 1996 with another Institute this year in 1997.

The success of Sea Connections in 1996 confirms our belief that *ERNESTINA* is a very effective site for learning. Just as the ship was an ideal design for her varied occupations during the past century with her heavily ballasted keel for stability, low freeboard and high rail for work over the side and ample space above and below decks originally to hold fish, she now is an excellent platform for exploring the marine environment. More than this, *ERNESTINA* provides the links to our maritime heritage and our cultural diversity, links that inspire learning as well as engender a broader perspective.

Sea Connections has been offered with attendant graduate credit and/or Mass. Dept. of Ed. PDPs.

## Community Outreach Programs

### *Membership Program*



Schooner *Ernestina* membership encourages first-hand citizen involvement with the schooner; complements the educational work of the ship and offers the opportunity for individual and family recreation in a context that fosters environmental discovery and cultural enrichment.

The membership program facilitates and expands access by enabling individual citizens, families, organizational and business groups to be directly informed, through the *Ernestina* Newsletter, and directly involved, by sailing on *Ernestina* on the many Member Sail Opportunity days designated on the schedule. During the 1996 season there were 34 Member Sail Opportunities. Beyond these personal and active connections, members become stakeholders through their financial support. As personal contributors, their interest is heightened and their sense of reward is amplified as ship's programs and activities expand to serve a wider and wider constituency.

Family membership will be a major thrust of program expansion. Following the model of Project PALMS "Family Math & Science Night" events, recreational sailing aboard *Ernestina* can also be an opportunity to involve children and their parents, together, in environmental awareness activities.

*Ernestina* membership, individual, family and group, will also serve the cause of community betterment. *Ernestina's* expanding role as a traveling cultural resource will include more frequent festival appearances. The format and structure of a dockside "Schooner *Ernestina* Pageant" is under development for application in many harbor festival situations along the coast. This concept can serve to celebrate: Cape Verdean-American heritage, other immigration epochs, the history and current reconfiguration of the New England fisheries, the highlighting of

individual community pride in local maritime history and heritage. This element of Ernestina's schedule is a natural place for direct member involvement.

### ***Youth Programs***

Separate from the Membership Program is youth group activity. The Martha Briggs Club of New Bedford, the New Bedford area Boy Scouts and the after-school 4-H Club in New Bedford are examples of this type of community connection. These groups are affiliated in a variety of ways - some have chartered the ship for a sail then returned to participate in a dockside or festival event as volunteers. Others have provided a workday for ship maintenance, under supervision of Ernestina staff, and returned at a later date to enjoy an overnight or coastal passage. In the case of the 4-H Club, a weekly meeting included schooner lore and history, maritime music, a study of the waterfront, its various vessels, visitors. This activity encourages crucial, authentic connections to the youth of the home port of New Bedford yet, it also serves as a model for other ports of call. Youngsters investing time, talent and honest effort become stakeholders: they come to feel a personal pride in what they have done for the ship, their community and themselves.

### ***Public Programs***

Ernestina has developed events that take place throughout the year at waterfront sites and in partnership with local communities. To support these activities an interpretative display has been developed through funding from the Massachusetts Environmental Trust. See appendix for reduced proofs of the seven panel display.

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## **HOW WILL *ERNESTINA* APPROACH THE STATED CHALLENGE?**

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### ***Serve as a Model***

*Ernestina* operates on a foundation of public-private partnership. The ship and programs are versatile and mobile. Careful planning, design and implementation, consistent with mission and current educational and environmental initiatives will create a model that is community based and effective.

### ***Serve as a Facilitator***

*Ernestina* provides the common ground that facilitates dialogue and implementation. *Ernestina* is state owned, part of the federally operated National Historical Park and is homebased in New Bedford. She provides both historical and mobile links to all of the seaports of the Commonwealth. The *Ernestina* Commission includes designees of agency heads, namely the Departments of Environmental Management and Education and Office of Travel and Tourism, as well as residents of the Commonwealth. Through these relationships and others *Ernestina* can bring communities, organizations and stakeholders together.

## ***Serve as a Resource***

*Ernestina* programs incorporate documents such as the *Massachusetts Curriculum Frameworks* and *Benchmarks on the Way to Environmental Literacy* into curriculum development. The local Comprehensive Conservation and Management Plans, the Benchmarks and Watershed Maps from CZM are included with curriculum guides. In addition, *Ernestina* is working with agency programs such as Riverways, Mass Bays Program, and Coastal Zone Management as well as organizations such as Coalition for Buzzards Bay, Lloyd Center for Environmental Studies, and Massachusetts Marine Educators and many others to create channels for networking and communication.

## ***Serve Stakeholders***

*Ernestina* is focusing on partners in the community that work together to meet the stated need. These include school administrators, teachers, business partners, organizational partners, students, parents and public agencies. *Ernestina* provides opportunities for all stakeholders to further common objectives. Examples include teacher in-service and professional development workshops that meet administrative objectives as well as personal objectives for teachers, curriculum guides that will help teachers meet student needs, proposals that serve community and long term objectives for charitable organizations, and a better equipped workforce for businesses. Above all is an open ended goal for a better quality of life.

## ***Serve as a Link between Stakeholders***

It has been typical for schools to have limited connection with resources in the community outside the classroom, for businesses to have a passive role in creating a better equipped workforce, for funders to generate RFPs without the involvement of donees. Federal, state and local agencies may work in isolation when huge potential exists for a more collaborative approach.

*Ernestina* has a natural relationship with stakeholders that will help link them together both in a metaphorical as well as physical sense.





## MARKET

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### ***Market Analysis/Segments***

*Who are ERNESTINA's partners and what do we offer?*

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Public Schools                                | Educational Programs  |
| Private Schools                               | Teachers Training     |
| Experiential Educational Organizations        |                       |
| Youth Services                                | Programs for Youth    |
| Community Service Organizations               |                       |
| Professional Educator's Organizations         | Professional Services |
| Maritime Museums & Preservation Organizations |                       |
| Chambers of Commerce                          | Waterfront Attraction |
| Business Organizations                        | Festival Draw         |
| Waterfront Communities                        | Link Resources        |
| Heritage Parks                                |                       |
| Corporate Groups                              | Meet Community        |
| Foundations                                   | Service Goals         |
| Membership                                    |                       |
| Volunteers                                    |                       |
| Commonwealth of Massachusetts                 |                       |

### ***Direct Competition***

Although there are several other organizations that operate sailing vessels of similar size and operational characteristics as ERNESTINA, she occupies a unique niche because of her marvelous history, her strong grassroots involvement, her regional commitment to coastal communities and versatile educational program.

Sea Education Association in Woods Hole, MA operates the WESTWARD and CORWITH CRAMER as research vessels providing two and six week programs at sea for high school and older, primarily college students. Neither ship can carry 'passengers for hire' and a well respected semester program is offered for credit at university level.

Schools for Children in Charlestown, MA operates the SPIRIT OF MASSACHUSETTS, a vessel that has a similar certificate as ERNESTINA, and could provide service to a similar range of clients as ERNESTINA. The market they pursue includes independent schools and college programs for extended voyages of up to six weeks.

The Harvey Gamage Foundation, Inc., Frankestown, NH operates the HARVEY GAMAGE and appeals to a similar market as the SPIRIT.

ERNESTINA's strategy of providing dockside programs, shorter trips of a half day to five days and her special relationship to coastal communities are attributes of her program not matched in the same way by other programs. Even were we to compete head to head, we do not come close to saturating a market when our overnight

capacities are 30 and daysail capacities less than 80. Rates are comparable from vessel to vessel.

In fact, rather than relate to other vessels as competitors, *ERNESTINA* has frequently served as partner, facilitator and coordinator. *ERNESTINA* staff have collaborated with HARVEY GAMAGE for joint programs for the past two years providing joint independent school programs for two weeks in the summer. As a result of *ERNESTINA* leadership, a Boston to New Bedford coastal sail-in-company was organized with SPIRIT, GAZELA and BOUNTY in 1996 as part of the CONSTITUTION turn-around and Summerfest in New Bedford. In 1997, there are joint projects with HARVEY GAMAGE, SPIRIT, LETTIE G. HOWARD, BLACK PEARL, BRILLIANT, PROVIDENCE and others.



## ***Fee Schedule***

The following table compares rates of similarly sized vessels:

| Vessel                  | Capacity: Overnight/Day | Full Day Rate |
|-------------------------|-------------------------|---------------|
| Shenandoah              | 30/35                   | \$3000        |
| Spirit Of Massachusetts | 22/50                   | \$2500        |
| Harvey Gamage           | 27/65                   | \$3600        |
| Rose                    | 31/80                   | \$3100        |
| Ernestina               | 30/80                   | \$2500/\$3000 |

\*1994 rates

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## **MARKETING**

### ***Ernestina's Resume***

*What are some of Ernestina's credentials?*

**National Historic Landmark** designated by DOI in 1986 (award winning restoration)

**New Bedford Whaling National Historical Park:** Ernestina specifically in park included with matching programmatic funds

**US Coast Guard inspected sailing school vessel (1986) and passenger vessel (1994)**

**"Official vessel of the Commonwealth"** (legislated 1994)

*What is special about Ernestina?*

Only surviving **19th century Essex-built Grand Banks** fishing schooner.

One of two remaining sailing **Arctic exploration** vessels. The Schooner Bowdoin (now at Maine Maritime Academy) that sailed from Provincetown is the other.

Set **farthest north record** for any wooden sailing vessel in 1940 at 80°22' N or 578 miles from the pole.

**WWII Service:** surveyed Arctic water under command of CMDR Alexander Forbes to support air base construction for hopping aircraft to Europe

Only surviving sailing **transAtlantic packet** schooner to carry immigrants to this country (Cape Verde Islands to Providence 1946 - 1965).

Republic of **Cape Verde invested** \$300,000 in hull reconstruction (equal to \$1 for every resident of Cape Verde) prior to gift to Massachusetts in 1982.

Ernestina sailed as the Effie M. Morrissey as a Gloucester fishing schooner with 10 dories aboard at the turn of the century. The **statue on Western Avenue** in Gloucester is Clayton Morrissey, famous Gloucester captain of the Morrissey (Ernestina).



## **Special Significance**

The Schooner has a special connection to several ports of the Commonwealth significant to her ability to stimulate interest and draw participation in waterfront activities.

### **Gloucester**

She was designed by a Gloucester architect and launched from the James and Tarr yard in Essex in 1894. She sailed from Gloucester between 1894 and 1905 for some of Gloucester's more notable captains of the time. The statue on Western Avenue in Gloucester is Clayton Morrissey, son of William (the original captain). She is the only 19th century Essex built Gloucester schooner left.

### **Boston**

As the *Morrissey*, the ship came in to Boston Fish Pier to deliver fish to market. There are photographs of her at dockside just after the turn of the century.

### **Provincetown**

A contemporary of Capt. Bob Bartlett and compatriot on the Peary expedition to the North Pole was Donald MacMillan. MacMillan sailed from MacMillan Pier in Provincetown aboard the Schooner *Bowdoin* between 1921 and 1954. Like the *Bowdoin*, the *Morrissey* was exploring, charting and researching the far north.

### **New Bedford**

As a transAtlantic packet schooner from 1946 through 1965, *Ernestina* sailed from Providence, RI and came to New Bedford for repairs and outfitting for her yearly passages. She brought many Cape Verdean people to the United States who came to reside throughout the Southeastern Massachusetts area. The cargo ship *Jenny*, a present day cargo vessel sailing to Cape Verde, sails from New Bedford to Cape Verde regularly. *Ernestina* symbolizes the growing interest in strengthening of Cape Verdean/Massachusetts trade relations through Massachusetts ports. Her home port is New Bedford.

## **Marketing Strategy**

ERNESTINA is positioned as the official vessel of the Commonwealth. She is state owned and specifically placed within the Department of Environmental Management. From this position she is able to access resources of the Commonwealth such as the case in which white pine timber from Mohawk Trail State Forest was used to construct a new foremast in 1994. Funding for services provided by the ship such as programs for Department of Youth Services or in-kind services from Massachusetts Office of Travel and Tourism, UMASS or Massachusetts Maritime Academy are accessible because of the agency relationship. ERNESTINA can enhance efforts of various state agencies such as educational initiatives of the Department of Education or promotion of tourism in coastal communities at festivals.

ERNESTINA is positioned as a historical treasure. She is one of six remaining Essex built schooners; she holds the record of furthest north of any sailing vessel; she is the last of the many sailing vessels of the Cape Verdean packet trade and the last sailing

vessel to carry immigrants to this country in a regular packet trade. As an award winning National Historic Landmark, she has access to preservation funding and special appeal for groups attracted by her historic significance.

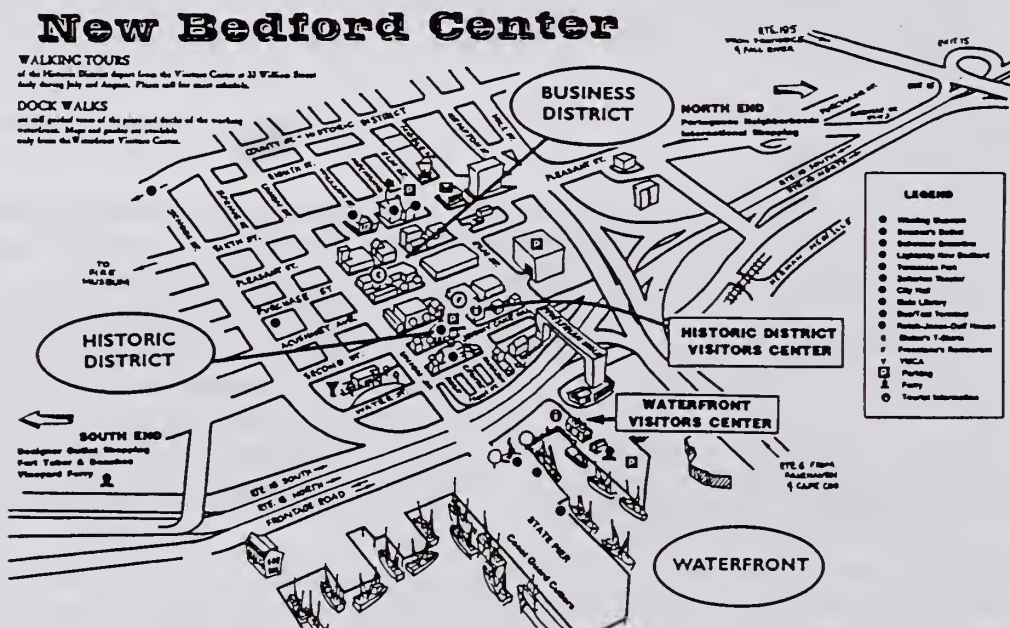
ERNESTINA is positioned as one of few sailing vessels holding a dual USCG certification as a sailing school vessel and passenger vessel. The dual certification allows operation under the authority of either set of regulations and provides for maximum versatility.

ERNESTINA is positioned as a mobile national historic landmark as part of the New Bedford Whaling National Historical Park. As such she can link coastal National Parks and Sites with unique and powerful interpretative programs.

ERNESTINA is positioned as a versatile learning and teaching resource sensitive to educational initiatives in the Commonwealth available on a regular and consistent basis along the coast.

## Marketing Objectives

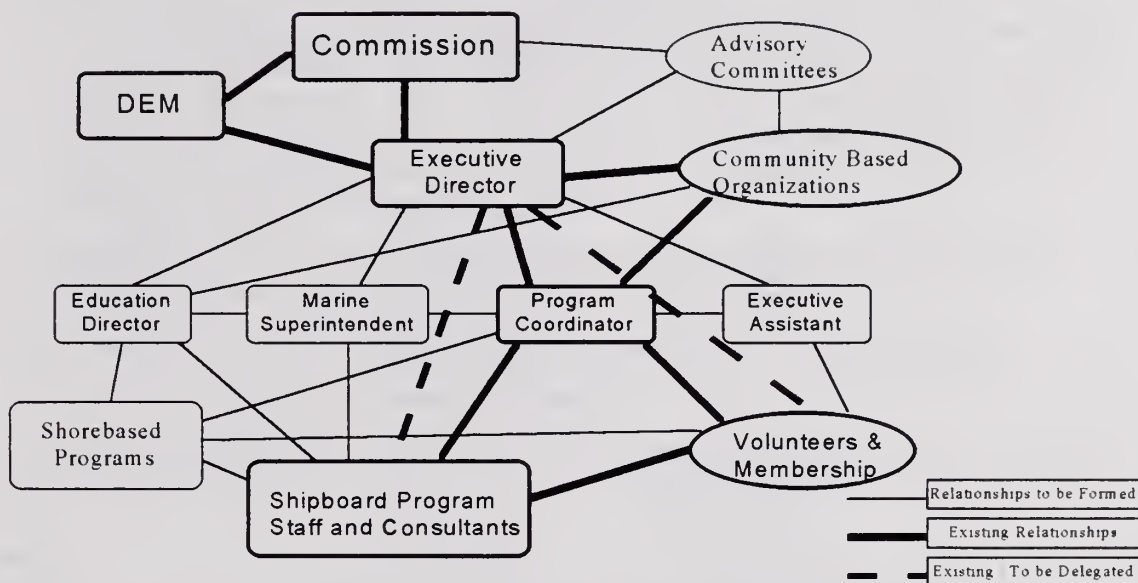
- Through aggressive outreach to clients, ERNESTINA has moved from operation at approximately 50% capacity in 1994 to 65% in 1996. 75% is the heaviest schedule that may be expected. ERNESTINA may reach this level by 1998. An approximation of capacity is based on the total number of program opportunities that could exist in the sailing season. 75% capacity allows for natural gaps and maintenance down time necessary during the course of the season.
- Program offerings are diverse and provide options to clients at various cost levels and degrees of exposure in order to widen the market and maximize use.
- Curriculum will be developed to accommodate the multi-cultural and interdisciplinary thrusts suggested by the mission. Program versatility will increase marketability and maintain staff enthusiasm as appropriate to mission.



## ORGANIZATIONAL STRUCTURE

A flow chart of the proposed organizational structure of the Schooner *Ernestina* Commission follows:

### Schooner Ernestina Organizational Structure



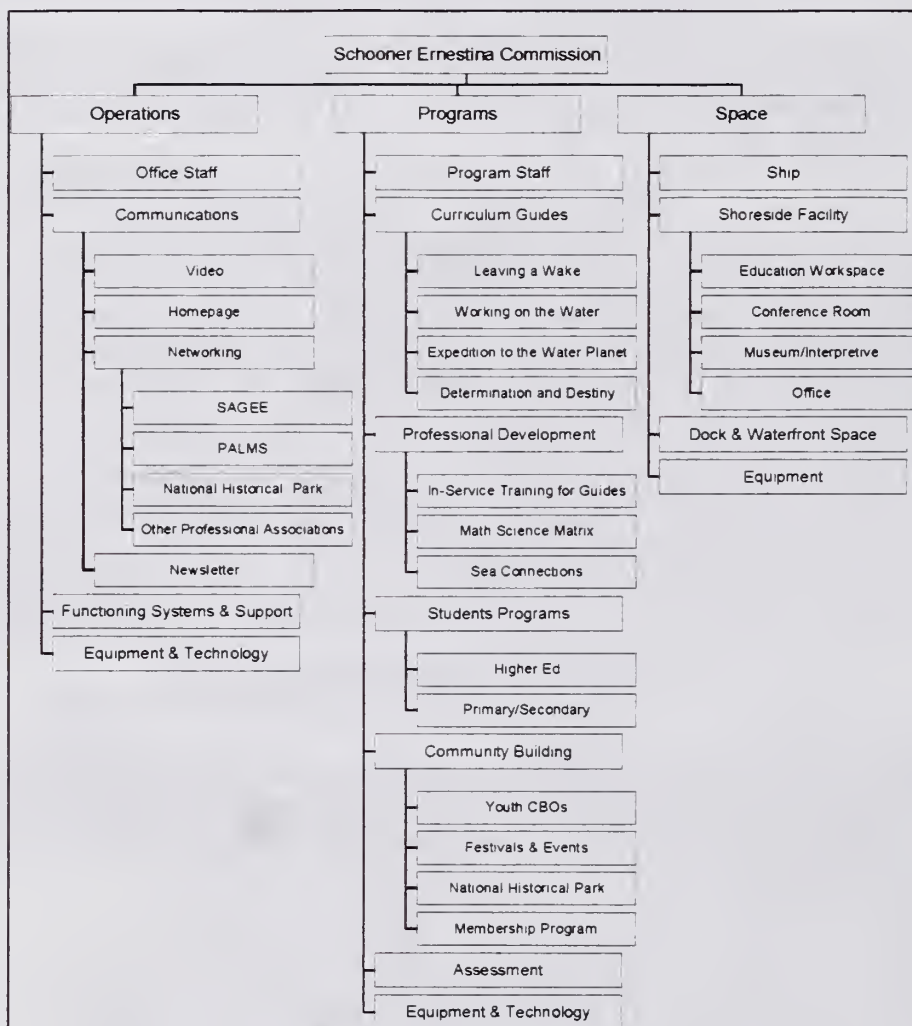
Organizational Flow Chart/Goal for FY 99

The current office staff includes the Executive Director and Program Coordinator only. A bookkeeper / membership coordinator is proposed at the current time that could expand into an executive assistant position. An education director and expanded captain's role will be required in subsequent years.



## ORGANIZATIONAL GOALS

In order to meet program objectives listed above goals are identified in general areas of concern to the organization. These areas include operations, program and space. A flow chart follows that portrays specific elements within each area that are important for effectively serving the mission, filling the need, and meeting objectives. Goals for these areas will be specifically identified in supporting text.



## **Operations**

Schooner *Ernestina* administration and support is provided for through a core group of staff that bring the comprehensive set of organizational components together to provide for a seamless connection of the facilities, programs and users, to engender bilateral connections to the communities and to enhance linkages between *Ernestina*, between communities and among other resources.

- Three *Ernestina* commissioners are designees of the Commissioners of state agencies namely Department of Environmental Management, Department of Education, and Massachusetts Office of Travel and Tourism.
- *Ernestina* is placed in the Division of Resource Conservation of the Department of Environmental Management. A project manager (Charlie Gibson) is assigned to facilitate the interface between operation and state administrative structures, etc. The Schooner Ernestina Commission has an account on the state MMARS system. The executive director maintains a personal bank account for petty cash advances. All revenues are deposited in the New Bedford State Pier account at Bank of Boston to be swept and disbursed from the Schooner Ernestina Commission MMARS account.
- *Ernestina's* homepage is located at <http://www.ernestina.org> and serviced through the New Bedford Standard-Times newspaper.
- *Ernestina's* newsletter called *Log of a Record Run* is offered quarterly.
- *Ernestina* is building a membership base.

The current office staff include an executive director(Gregg Swanzey) and program coordinator(Tom Goux).

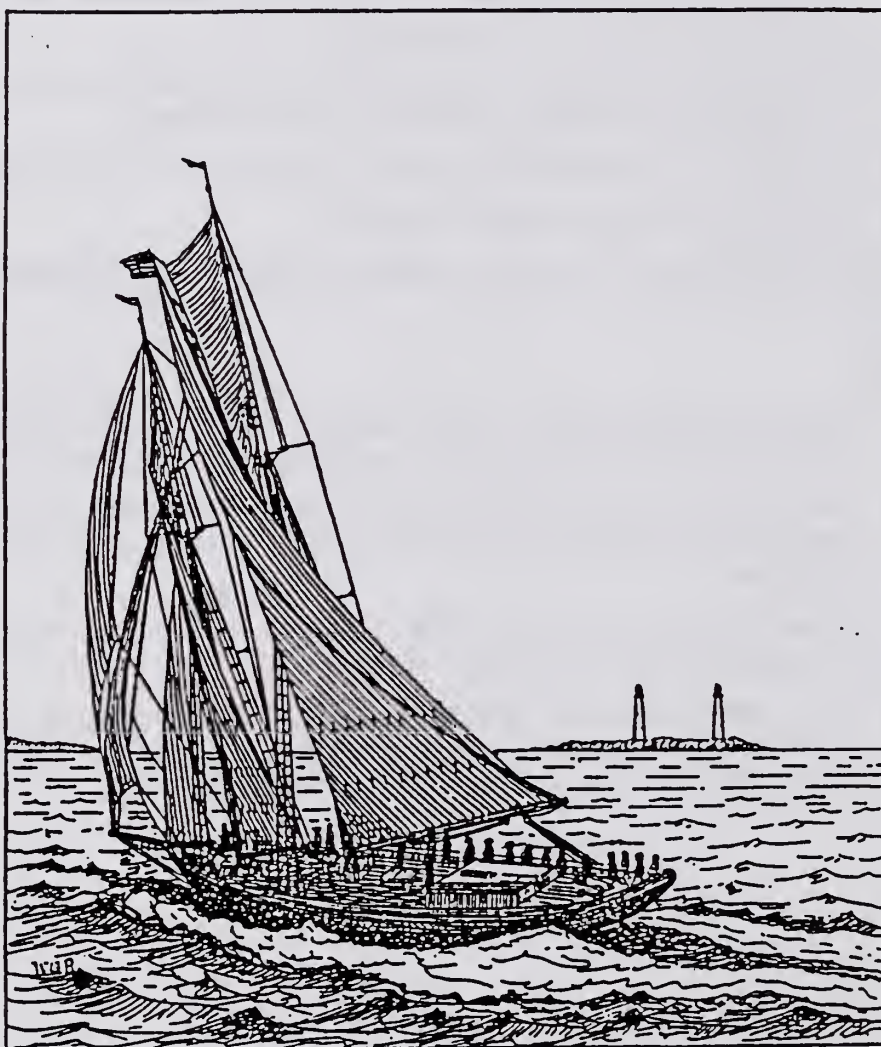
## **Goals**

- Secure dedicated State funding to support core operational (administrative) expense(hard costs) at \$150,000 for the coming fiscal year budget.
- Goal for spring 1997 is half time accountant/membership coordinator, computer upgrade and installation of a Centrex line for MMARS access for accounting purposes.
- Increase office staff as necessary and appropriate to proposed level as outlined in organizational flow chart by 1999.
- Implement structures to facilitate expanded function including upgrade of communications systems, computer network and organizational structures consistent with increased staff and program demands.

### ***Argument for Secure Funding in State Budget***

Core funding in the form of dedicated funds in the State Budget at a level that covers some of the so-called "hard costs" will allow Ernestina to continue the great progress that has taken place since 1994. Dedicated funds will accomplish the following:

- Secure Ernestina's future with a foundation of organizational stability and continuity for safe and effective ship operation and program delivery.
- Provide a basis for matching funding through grants from both federal and private sources thereby leveraging program development and underwriting.
- Raise the confidence of users, contributors and sponsors thus engendering further support through corporate and private donations.
- Set an example of civic pride for a valuable historic landmark





## ***Programs***

The stakeholders in the advancement of education reform and environmental literacy include school teachers and administrators, students, parents, community partners, business partners, charitable foundations and government agencies. *Ernestina's* programs and activities will serve to build consistency, capacity and collaboration between stakeholders through hands-on educational programs, professional development, networking and outreach.

- Member of New Bedford area PALMS (Partnerships Advancing the Learning of Math and Science) leadership team, a team dedicated to a vision of "All Massachusetts students will have access to the richness of the Commonwealth's mathematical, scientific, and technological resources and, through hands-on learning, be able to use mathematics and scientific principles to solve problems in their daily lives." PALMS is funded through the Massachusetts Department of Education by grant from the National Science Foundation.
- Member of SAGEE (Secretary's Advisory Group on Environmental Education), a group of representatives from environmental agencies, organizations, public schools and institutes of higher education who gather information and serve in an advisory capacity to the Secretary of Environmental Affairs in the Commonwealth of Massachusetts.
- Member of New Bedford Whaling National Historical Park Steering Committee serving to guide the implementation of the park in New Bedford. *Ernestina* may access up to \$50,000 in 4 to 1 matching funds for interpretation and educational programs as part of the park.

Education Reform, environmental literacy and assessment will be ongoing. *Ernestina* is in the midst of the process.

## ***Goals***

### *Teacher Enhancement and Professional Development*

- Provide at least (8) in service training experiences per year
- Expand multi-day Sea Connections Summer Institute for professional development to multi-tier from the current (1) six day program to (2) ten day programs by 1998

### *Curriculum*

- Develop and implement *Determination and Destiny* curriculum guide focusing on immigration along with associated issues of racism and tolerance by 1997 and 1998.
- Develop an internship program and a program for teachers on sabbatical to help create and deliver programs and extend ownership.

### *Youth Empowerment*

- Develop relationships and implement programs with youth run community based organizations in four coastal communities of Massachusetts to provide a vehicle for capacity building and inter-community relations

*Foundation Partners*

- Identify foundations and other funders to partially underwrite programs for schools and underserved populations in four primary areas of operation namely North Shore (Gloucester), Metro (Boston), Cape and Islands, and Southeastern MA (New Bedford and Fall River). Goal: \$50,000 (\$12,500 in each area).

*Agency Partners*

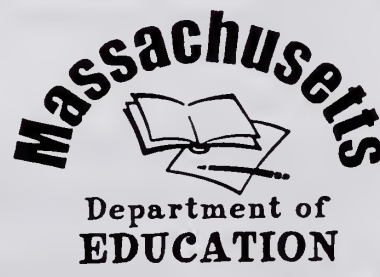
- Expand and/or identify level of usage of the ship for programs by agencies (DYS, DOE, MOTT, DEM), schools and institutions of higher learning (UMASS and MMA). Goal: state agencies @ \$145,000 w/ \$14,500 for development

*Community Partners*

- Develop a consortium among local environmental organizations in Southeast MA to provide a comprehensive array of programs and services.
- Plan and implement interpretative programs as part of the New Bedford Whaling National Historical Park including links to Nantucket and Martha's Vineyard as well as regional historic whaling ports.
- Plan and implement interpretative programs as part of the New Bedford Whaling National Historical Park including links to other sites in the National Parks system including Harbor Islands NRA, Boston NHP and Salem NHMS.

*General Public, Networking and Outreach*

- Develop the membership program and provide access to the ship for the public at large. Focus on family experiences as special events within the membership framework. Goal: PSA for radio and TV by 1997, 1000 members by 1998.
- Develop a visiting ships program for New Bedford. Goal: 10 ships per year.
- Create annual events that will help build relationships with organizations, institutions and individuals in the community e.g. Summerfest(July), Maritime Heritage Day(April), *Ernestina's* Stone Soup Festival(October), Polar Festival(*Ernestina's* birthday in early February)
- Equipment and Technology upgrades



**MASSACHUSETTS**

**Executive Office of Environmental Affairs**

## **Space**

In order to function well, the Schooner *Ernestina* Commission must hold, acquire or have access to space as follows:

### ***Shoreside Facility***

There must be an office that is of a size to accommodate current and planned full time staff that is accessible, efficient and close to the New Bedford waterfront.

Program space is needed for workshops and conferences. Ideally this space would be contiguous with the office and a museum space.

Museum and interpretative space is needed to house *Ernestina's* archive and artifacts and to provide a venue with public access for *Ernestina's* remarkable story and to serve the educational and environmental mission.

### ***Schooner Ernestina***

The Schooner *Ernestina*, as the primary vehicle for accomplishing the mission, must be properly maintained.

### ***Dockage and Waterfront Space***

There must be a secure storage facility for supplies, materials and equipment at dockside to support the operation of the Schooner *Ernestina*.

There must be a designated dock space for the *Ernestina*. In addition, in order to accommodate joint Tall Ship programs and visiting ship programs, etc. additional dockspace available upon request is desirable.

There must be parking and a reception area at dockside for participants in *Ernestina* programs in the vicinity of the dock. An enclosure for inclement weather is desirable.

### ***Current Arrangement***

The *Ernestina* is well maintained, has an adequate dock and storage space on State Pier. State Pier can accommodate parking for any of *Ernestina's* programs and Tonnessen Park is a good dockside space, although there is no pavilion or other shelter for programs or events during inclement weather. The office is in a trailer on State Pier. It provides room for two staff and some storage, but, is not accessible and can not be expanded.

### ***Goals***

- Identify specific spatial needs for office, conference room, museum and workspace, survey the New Bedford waterfront for existing facilities and develop a plan for acquisition, development and/or use during 1997 in consultation with community partners and National Historical Park committee.



## BUDGET

A summary sheet follows showing a budget by time period and category for major cost centers by calendar year. The numbers shown for 1996 are actual with proposed budgets shown for 1997 and 1998.

| Revenue                                       |                            |                         | CY1996    | CY1997                | CY1998                     |
|-----------------------------------------------|----------------------------|-------------------------|-----------|-----------------------|----------------------------|
|                                               | Federal(capital)           |                         |           | \$140,000             |                            |
|                                               | Federal(program)           |                         |           |                       | \$25,000                   |
|                                               | State(operation/capital)   |                         | \$125,000 | \$150,000             | \$125,000                  |
|                                               | State(program development) |                         | \$39,500  | \$14,500              | \$15,000                   |
|                                               | State(program)             |                         | \$46,000  | \$135,000             | \$135,000                  |
|                                               | Municipal                  |                         |           | \$5,000               | \$10,000                   |
|                                               | Program Fees               |                         | \$83,897  | \$110,000             | \$130,000                  |
|                                               | Foundation Grants          |                         | \$32,626  | \$78,000              | \$95,000                   |
|                                               | Corporate Grants           |                         | \$1,500   | \$7,500               | \$10,000                   |
|                                               | Membership                 |                         | \$8,630   | \$15,000              | \$30,000                   |
|                                               | Donations                  |                         | \$8,135   | \$15,000              | \$20,000                   |
|                                               | Other                      |                         | \$50      | \$500                 | \$2,000                    |
| Revenue Total                                 |                            |                         | \$345,338 | \$549,000             | \$597,000                  |
| Expenses (see attached sheets by cost center) |                            |                         |           |                       |                            |
|                                               | Operations                 | Operations Total        | \$137,412 | \$176,295             | \$219,260                  |
|                                               | Programs                   |                         |           |                       |                            |
|                                               |                            | Ship based              | \$166,965 | \$196,900             | \$219,260                  |
|                                               |                            | Special Events          | \$0       | \$3,500               | \$4,500                    |
|                                               |                            | Program Total           | \$164,965 | \$200,400             | \$223,660                  |
|                                               | Space                      |                         |           |                       |                            |
|                                               |                            | Office/Museum           | \$0       | \$2,000               | \$12,000                   |
|                                               |                            | Ship                    | \$12,600  | \$140,000<br>(actual) | \$75,000<br>(depreciation) |
|                                               |                            | Ship/Insurance          | \$25,000  | \$25,000              | \$25,000                   |
|                                               |                            | Dock/Storage/Waterfront | \$0       | \$0                   | \$5,000                    |
|                                               |                            | Equipment               | \$5,077   | \$5,000               | \$5,000                    |
|                                               |                            | Space Total             | \$42,677  | \$172,000             | \$122,000                  |
| Expense Subtotal                              |                            |                         | \$345,054 | \$548,695             | \$564,920                  |

## Budget Narrative

### Revenues

Revenue sources are described under the individual categories in the following text:

#### **Federal**

A proposal has been accepted for \$140,000 in capital expenditures as a historic preservation project through the Intermodal Surface Transportation Efficiency Act (ISTEA). The letter to proceed should be received in mid-February 1997. Further capital funds are not listed but may be available in the future through the National Maritime Initiative, etc.

Program funds are specifically authorized for interpretation and program as part of the National Historical Park. This is 4 to 1 matching funds up to \$50,000. The funds may be available beginning in late 1997. Further program funds are not listed but may be available in the future through the National Maritime Initiative, etc.

#### **State**

Operational funds have been dedicated in DEM's budget for FY1997 through legislative action. A goal once again for the next fiscal year is to dedicate operational (administration) funds for *Ernestina*.

Program development has taken place through grants from the Department of Education(\$20,000), Massachusetts Environmental Trust(\$14,500) and Office of Travel and Tourism(\$5,000) in FY1996. Ongoing assistance from DOE(\$14,500) will be engendered to keep *Ernestina's* programs current and consistent with developing needs.

Several State Agencies have used the *Ernestina* for programs to serve specific agency needs. DOE funded Sea Connections(\$25,000) and Department of Youth Services utilized the ship for two day youth at risk programs(\$21,000). We propose that the utilization of the ship be expanded to a stable level for similar uses as follows:

- DOE @ \$50,000 for Sea Connections Summer Institute for professional development
- DYS @ \$63,000 for (21) days of two and three day programs
- MOTT @ \$25,000 for coastal programs that link MA to the Mid-Atlantic States and the Canadian Maritimes during June and September respectively.

#### **Municipal**

The City of New Bedford, as *Ernestina's* homeport, has authorized \$10,000 in operational support for 1997. An annual sum will serve a similar purpose as the state operational funding for leverage and matching purposes.

### ***Program Fees***

Revenues received for services rendered are increasing due to additional capacity during the annual schedule and the increasing ability of *Ernestina* to meet needs of users. Development of curriculum guides, networking and partial funding from various sources have been the primary factors allowing growth. Continued progress in all areas will allow for a linear development of usage.

### ***Foundation Grants***

Foundations will be approached to consider proposals in the following areas:

#### Underwriting

- Most schools will not be able to take advantage of *Ernestina's* programs without a share of the cost covered. *Ernestina* seeks funding to underwrite programs for schools in each of the four areas of operation along coastal MA. Currently the partners include the Boston Marine Society in the Boston area, Island Foundation in southeastern MA, and Community Foundation of Cape Cod & service organizations on Cape Cod.
- *Ernestina* seeks funding for underserved audiences such as schools and organizations in the western part of the state and for persons with disabilities.

#### Special Projects and Development

- Water monitoring is ongoing by numerous watershed groups, organizations, municipalities and agencies. Participants in *Ernestina's* programs also gather data. The goal is to identify links and consistent protocols to make data readily available and educational experiences more relevant.
- *Ernestina* seeks funding for equipment and technology to gain access to information and to more effectively network
- Youth run community based organizations work in the community in all of *Ernestina's* ports of call. *Ernestina* seeks funding to work with representative groups in the seaport communities such as Fall River, New Bedford, Boston, and Gloucester to extend current efforts and to create an inter-community network.
- A curriculum guide and program is needed that will focus on the story of immigration along with associated racial, ethnic, social and political issues.
- *Ernestina* must identify and implement a plan for assessment consistent with current educational initiatives
- *Ernestina* is interested in creating special events that serve the community and organizational mission, e.g. a coastal sail connecting historic whaling ports with a culmination at the New Bedford Summerfest and a Parade of Sail in early July 1997. Other types of cultural events highlighting maritime heritage, the environment and education are planned.

See statistical summaries in appendix for list of sponsors in 1995 and 1996.



### Corporate grants

Corporate grants at a \$500 level are increasing and can be a substantial means of both providing operational funding and underwriting community programs. A goal is to increase corporate support to \$10,000 by 1998.

### Membership

Membership is the primary way for the general public to gain access to the *Ernestina* underway (dockside visits are generally open to the public free of charge). Members can call and register to sail on any of specified member sails at no extra charge to members (\$40 individual/ \$60 family membership). The membership program has substantial growth potential. Key elements for expanding program are staff coordinator, newsletter, homepage, etc. A goal is for 1000 members by 1998. In 1996 members were offered 34 member sail opportunities both three daysails and transit passages between seaports.

### Donations

Development of a donor base is a process that takes three to five years and is underway. Substantially growth is anticipated.

### Other

Merchandise is an example of another source of funding that will be developed in the future. A merchandising program produced by DEM would be the best vehicle in which Ernestina could offer hats, T-shirts, model, calendar, cards and framed prints, etc.

#### Categories of Membership

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                                                                                                                                                                                                                            |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Subscribing Member<br>Receive ERNESTINA Newsletter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$25  | 2nd Century Club<br>2nd Century Club members enjoy all benefits above<br>Guests are free of charge<br>Receive special framed Eldridge print<br>of Schooner ERNESTINA<br>under full sail                                                                    | \$1,000 |
| Crew Member (Individual)<br>Receive ERNESTINA Newsletter<br>Sail on Ernestina Member Sail:<br>no charge during Member Sail<br>in ERNESTINA Newsletter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | \$40  | Corporate Membership<br>All corporate employees receive 10% discount on ERNESTINA membership<br>Listed as Business Partner                                                                                                                                 | \$500   |
| Crew Members (Family)<br>Entire family enjoys Crew Member benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | \$60  | Corporate Sponsorship<br>Special acknowledgment of sponsorship in print and electronic media<br>Choice of school or organization to receive half day sail program<br>Evening sail or dockside reception<br>Listed as Corporate Sponsor<br>Business Partner | \$3,000 |
| Shipmates<br>Entire family enjoys Crew Member benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | \$200 |                                                                                                                                                                                                                                                            |         |
| Those listed as Shipmates receive four plus benefits<br>(4) Guest Passes valid for any Member Sail Opportunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                            |         |
| <b>Tax Deductibility</b><br>Donations are tax deductible under Section 170(b)(1) and as defined in Section 170(c)(2)(B) of the Internal Revenue Code. The donor must supply a statement to the organization for contributions of \$75 or more. It has been determined that the right to sail on Ernestina as part of an annual membership offered in return for payment of \$25 is a part of an annual membership offered in return for payment of \$25. In light of these regulations, please use this information re: Framed Eldridge print plus reduced guest passage can not be deducted.<br>-Fully Tax Deductible-<br>Subscribing Member \$25<br>Crew Member (Individual) \$40<br>Crew Members (Family) \$60<br>Shipmates \$200<br>All contributions |       |                                                                                                                                                                                                                                                            |         |

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## **Expenses**

The following three spreadsheets show details for the main cost centers by time period and category:

### **Operations**

|                                                                                                                      | CY1996    | CY1997    | CY1998    |
|----------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
| Salaries including 15% empl exp<br>Director @ \$52k<br>Prog Coord @ \$36k<br>Educ Dir @ \$36k<br>Exec assist @ \$27k | \$102,000 | \$135,295 | \$174,120 |
| Consultants                                                                                                          | \$14,550  | \$15,000  | \$15,000  |
| Services                                                                                                             | \$1,181   | \$1,200   | \$1,200   |
| Utilities                                                                                                            | \$672     | \$700     | \$1,800   |
| Printing                                                                                                             | \$7,410   | \$7,500   | \$8,000   |
| Phone                                                                                                                | \$4,757   | \$4,800   | \$5,200   |
| Postage                                                                                                              | \$1,067   | \$2,240   | \$4,480   |
| Supplies                                                                                                             | \$2,812   | \$3,000   | \$4,000   |
| Travel                                                                                                               | \$1,676   | \$1,800   | \$2,200   |
| Internet Access/Homepage                                                                                             | \$828     | \$660     | \$660     |
| Ads                                                                                                                  | \$459     | \$600     | \$600     |
| Equipment                                                                                                            | \$0       | \$3,500   | \$2,000   |
| TOTAL                                                                                                                | \$137,412 | \$176,295 | \$219,260 |

Staff = executive director and program coordinator in 1996

executive assistant (bookkeeper/membership coordinator) to be added in 1997

education director to be added in 1998

Expenses are typical for operating office. No benefits are available to staff. Staff are hired as O/3 employees and paid according to hours worked at hourly rates based on annual levels shown. Therefore the budgeted level for salary expense is a maximum obligation.

Additional administrative staff are needed to handle increasing organizational demands consistent with growing utilization of Ernestina's programs.

**Programs**

| Ship-Based           |                                                                                                                                                                                                                                                     | CY1996    | CY1997    | CY1998    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|
|                      | Salaries @ 6 mos. plus 15%<br>Capt @ \$36k<br>Prog Coord @ \$33k<br>Mate @ \$30k<br>Mate @ \$30k<br>Mate @ \$24k<br>Engr @ \$27k<br>Steward @ \$27k<br>Educator @ \$27k<br>Educator @ \$27k<br>Educator @ \$24k<br>Intern @ \$13k<br>Intern @ \$13k | \$148,000 | \$176,000 | \$203,665 |
|                      | Supplies                                                                                                                                                                                                                                            | \$2,127   | \$3,500   | \$4,000   |
|                      | Food                                                                                                                                                                                                                                                | \$9,977   | \$12,000  | \$13,000  |
|                      | Fuel                                                                                                                                                                                                                                                | \$2,723   | \$3,000   | \$3,300   |
|                      | Drug Tests                                                                                                                                                                                                                                          | \$1,213   | \$1,300   | \$1,365   |
|                      | Medical                                                                                                                                                                                                                                             | \$109     | \$200     | \$250     |
|                      | Dockage                                                                                                                                                                                                                                             | \$554     | \$600     | \$750     |
|                      | Rental                                                                                                                                                                                                                                              | \$262     | \$300     | \$300     |
| Total Ship-Based     |                                                                                                                                                                                                                                                     | \$164,965 | \$196,900 | \$226,630 |
|                      |                                                                                                                                                                                                                                                     |           |           |           |
| Special Events       |                                                                                                                                                                                                                                                     |           |           |           |
|                      | Polar Bear Tales (Feb)                                                                                                                                                                                                                              |           | \$500     | \$750     |
|                      | Maritime Heritage Days (April)                                                                                                                                                                                                                      |           | \$250     | \$250     |
|                      | Summerfest (July)                                                                                                                                                                                                                                   |           | \$1,500   | \$1,500   |
|                      | Stone Soup Fest (Oct)                                                                                                                                                                                                                               |           | \$1,000   | \$1,500   |
|                      | First Night (Jan)                                                                                                                                                                                                                                   |           | \$250     | \$500     |
| Total Special Events |                                                                                                                                                                                                                                                     | \$0       | \$3,500   | \$4,500   |

Staff contracts are written as for operations staff and paid at hourly rate according to hours worked. No additional benefits are offered. Rates shown above are annual pay scale. Budget is based on approximately six months or 50%. Salary amounts shown in table are annualized for comparison but reflect approximately half the amount in the overall budget figure.

Staff are required by US Coast Guard regulations to submit to pre-employment drug tests and work under a random drug testing program as per US Code of Federal Regulations for Passenger vessel operation.

Five(5) USCG licensed staff are required for Sailing School vessel operation.



Space

|                             | CY1996   | CY1997    | CY1998    | Explanation                                                             |
|-----------------------------|----------|-----------|-----------|-------------------------------------------------------------------------|
| Office/Museum               |          | \$2,000   | \$12,000  | Office/Museum space is figured at \$6 per sq ft per year for 2000 sq ft |
| Ship                        | \$12,600 | \$140,000 | \$75,000  | Ship maint and cap imp annual average is \$75,000                       |
| Ship/Insurance              | \$25,000 | \$25,000  | \$25,000  | current figure                                                          |
| Dock/Storage/<br>Waterfront | \$0      | \$0       | \$5,000   | gangways, electric, improvements                                        |
| Equipment                   | \$5,077  | \$5,000   | \$5,000   | equipment purchase                                                      |
| TOTAL                       | \$42,677 | \$172,000 | \$122,000 |                                                                         |

Insurance is required by Federal regulation for sailing school vessels to cover each participant aboard at \$50,000. Schooner Ernestina's P&I policy is written for \$2 million in coverage. Otherwise the Commonwealth of Massachusetts self-insures.

## **SPECIAL CONSIDERATIONS AND RISKS**

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### **Higher Maintenance Costs**

The maintenance and improvements to the Schooner ERNESTINA take place primarily at marine railways in Fairhaven and Gloucester. The costs and availability of these specialized services may change with closings of yards and cost of doing business.

### **Fuel Costs**

ERNESTINA, as an auxiliary powered vessel, uses less fuel as use of sails increases. The main engine is necessary to keep a schedule. As the schedule fills the use of the engine increases in order to meet schedule. Operational expenses are effected by price of fuel.

### **Major Breakdowns or Groundings**

Collisions, fire and breakdowns may occur even with the best maintenance plan. No specific cash reserve fund is maintained at this time for emergency purposes but must be planned for as an accessory to this plan. The revenues and cash flow indicate that development of a cash reserve will be possible as ERNESTINA reaches 75% capacity and should be included in future business plans.

### **Weather and Major Storms**

ERNESTINA has a very protected harbor in New Bedford for practically any severe weather. Although ERNESTINA sails rain or shine and rarely cancels a program, some revenue loss may be associated with the weather.

## CONCLUSIONS

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- Schooner *ERNESTINA* is a valuable asset of the Commonwealth that can further a multitude of initiatives and enhance the activities of numerous organizations and institutions both public and private.
- Schooner *ERNESTINA* must have widespread support in the way of funding, grants, sponsorships and in-kind services in order to continue operating.
- Schooner *ERNESTINA* will sail into her next hundred years as much a highliner as she was in her Gloucester fishing days or as famous as she was on her long trips to the arctic or as central to community as she was as a transatlantic packet; now with an educational mission as official ship of the Commonwealth.



## ATTACHMENTS

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### *History*

*Ernestina's* pathway through history is remarkable. Some excerpts from her life follow:

The black-hulled *Morrissey* first set sail for the Grand Banks on March 14, 1894, just six weeks after her launching. William E. Morrissey was the ship's skipper (Effie was William's daughter) and on that first trip he kept the *Morrissey* out salt-banking for four months. When the schooner returned to Gloucester in July her hold held 250,000 pounds of salted cod. This was the biggest catch that any schooner brought in that month.

The *Morrissey* worked most often as a dory trawler. The crew of twenty fishermen would pair off in each of the ship's ten dories and trawl for cod, haddock or halibut from lines paid out of tubs. When the dory was full of fish the men would row or sail back to the schooner which in the meantime was manned only by the captain and cook. On occasion a storm would blow up sending the dories away from the ship with only a handful of crew, yet the records show that in all her years of fishing the *Morrissey* lost only one man.

In 1905 the *Effie M. Morrissey* began fishing out of Digby, Nova Scotia under the command of Captain Ansel Snow (Snow was later a skipper of the Canadian *Bluenose*). Snow and others continued to fish and occasionally carry freight with the ship out of Canada for twenty more years. In 1912, the *Morrissey* made such a record run that a ballad, sung by many a Grand Banks fisher, was inspired. Frederick William Wallace, a writer and photographer, wrote an account of this voyage that appears in his book, Roving Fisherman. Sailing from Portland to Yarmouth, the ship logged two hundred miles in twenty hours, reaching at times a speed of sixteen knots and carrying only her foresail for the last eight hours.

In 1924 Captain Robert Bartlett bought the *Effie M. Morrissey* from his brother, Harold, who had been fishing the ship out of Brigus, Newfoundland. Bartlett was an experienced captain and ice navigator who had skippered Admiral Peary's ship, the *Roosevelt* on the famous expeditions on the quest for the North Pole. During the summer of 1925, "Captain Bob" took the *Morrissey* on a fishing trip to Labrador. The *Morrissey* sailed into coves where her crew set traps for cod or, later in the season, jigged for fish out of motor boats. Icebergs posed a constant threat; Bartlett recounts several episodes when the engineless *Morrissey* just missed wrecking by approaching bergs.

In 1926 the charismatic "Captain Bob" Bartlett persuaded George Palmer Putnam, a well know publisher, to fund an exploratory trip to Greenland. This was the beginning of the *Morrissey's* twenty year career as an arctic exploration vessel. After the installation of a her first diesel engine and sheathing of the hull with the Central American hardwood, greenheart, the *Morrissey* voyaged north with George Putnam and his son David. The voyage inspired David Putnam's David Goes to Greenland (1926), first in a series of popular children's book from the decks of the *Morrissey*.



The *Morrissey*, sailing out of New York City, went as far as eighty degrees twenty two minutes north latitude (within 600 miles of the north pole). "Captain Bob" took both students and scientists with him on his trips north sponsored by the American Museum of Natural History, the Museum of the American Indian, the National Geographic Society, the Smithsonian Institution, Explorers Club of New York and others. The *Morrissey's* adventures, including running aground and becoming icebound, are chronicled in several books including Bartlett's autobiographical Sails Over Ice (Charles Scribner's Sons, 1934) and in the Pathe Newsreels shown in movie houses throughout the country. Films produced during "Captain Bob's" trips are available on video narrated by men who sailed with Bartlett as teenagers, Mr. Fred Littleton and Mr. Austen Colgate.

Hundreds of experiments and studies were carried out from the *Morrissey's* decks over the years including charting Greenland waters, oceanographic sampling, Arctic plant and animal collections and anthropological studies of Inuit life. Much of the records of the expeditions are housed at the Peary-MacMillan Museum at Bowdoin College, the Smithsonian and American Museum of Natural History.

During World War II the *Morrissey* charted northern waters and carried supplies to Arctic naval bases commissioned by the Army Air Corps and the Navy under joint command of Captain Bartlett and Commander Alexander Forbes, USN. Commander Forbes describes this vital joint American-Canadian effort in Quest for a Northern Air Route, (Harvard University Press 1953).

With the death of Captain Bob Bartlett in 1946, the *Morrissey* was sold to two brothers who planned to fit her out as a yacht and sail to Tahiti for a charter business. She never made the trip; the ship caught fire at the dock in Flushing, New York and was scuttled to save her.

The *Morrissey* was raised and towed to Rowayton, CT where Henrique Mendes, of the Portuguese colony of Cape Verde, purchased her for \$7,000 and towed her to New Bedford for repairs. After six months of work by Henrique's son, Adilino, to ready the ship for her new service as a packet schooner, she sailed under Capt. Jose J. Perreira for Sao Vicente. Henrique Mendes placed her in inter-island packet trade in the Cape Verde Islands after changing her name to the *Ernestina* after his daughter.

Between 1948 and 1959 *Ernestina* made regular trips across the Atlantic between the Cape Verde Islands and Providence, RI. The ship carried cargo and passengers back and forth across the Atlantic. As a result of an agreement between Henrique and cranberry growers, many of the immigrants came to America to work in the cranberry bogs.

In the spring of 1949, *Ernestina* began her service as transAtlantic packet schooner under the command of Capt. John Baptista, Jr. Henrique's son, Arnaldo was among the crew. The ship left Brava on May 14 and stopped at Fogo and Praia before going to Dakar. Finally, after 53 days at sea the ship arrived in Providence on August 6 and anchored off State Pier. Immigration officials ordered passengers to stay aboard until their claims to U.S. citizenship were investigated. Marriage was one way citizenship could be obtained but, because the owner of the vessel would be heavily fined if crew got off, unmarried American women might visit the ship to

see if a match could be made. Once one member of a family was given immigrant status, he or she could bring the immediate family into the country.

After the inauguration of regular steamship service to the Cape Verde Islands there was less call for *Ernestina* to make transAtlantic passages. In 1965 she made her last trip to Providence as a packet. Nevertheless, she kept busy carrying passengers and goods among the islands and the coast of Africa even working as a school bus for high school children from Fogo and Brava to Praia and Mindelo.

By the mid-1970s the *Ernestina's* activity as a packet schooner was winding down. The schooner was getting old and could not compete with the steamships that plied the islands. In the United States interest in saving the historic *Ernestina ex Effie M. Morrissey* was building. An initial attempt to return the ship to the U.S. failed due to a dismasting in 1976 and the *Ernestina* ended up in the hands of the government of the newly formed Republic of Cape Verde.

The government decided to rebuild the ship and give her to the United States as a symbol of the ties of friendship uniting the two countries. Groups called the Friends of the *Ernestina/Morrissey* were formed in several areas on the East Coast in the United States; they sent money and materials to Cape Verde to assist the rebuilding. The Cape Verdean government spent over \$300,000 on the ship. In August of 1982 the *Ernestina*, her hull completely rebuilt, sailed to the United States with a crew of Cape Verdeans and Americans. The ship was met with magnificent fanfare; thousands of people had been waiting since 1976 to see *Ernestina* return to her country of origin.

Since her arrival in the United States in 1982, the *Ernestina* has received in excess of 1.5 million dollars for her restoration from the Commonwealth. In 1986 *Ernestina* was granted designation as a National Historic Landmark as a result of award winning preservation efforts. As of 1994, *Ernestina* has received a certificate of inspection from U.S. Coast Guard for operation as a sailing school vessel and as a passenger carrying vessel. This dual certification allows a versatility in operation and a wide range of services, the basis of a majority of her funding. She now sails with a licensed staff from her home port of New Bedford.

*Ernestina's* restoration was complete in November 1994 with ceremony on Veterans Day. A bronze plaque was installed on her deckhouse acknowledging the efforts and bonds that stretch across the Atlantic to the Islands of Cape Verde that have made a valuable historical and cultural asset and functioning educational resource available to the people of the Commonwealth and the United States.

## Sailing Schedule

The sailing schedule for the Schooner *Ernestina* is responsive to the prevailing weather conditions of coastal New England and the annual schedules for clients such as the public and private schools of New England.

A chart follows that portrays the schedule and rationale:

| <i>Time of Year</i>                  | <i>Program Types</i>                                                                                                                                                                                         | <i>Comment</i>                                                                                                                                                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>April - early May</b>             | <ul style="list-style-type: none"> <li>• Dockside Programs for elementary school children</li> <li>• Special dockside events</li> <li>• Teachers Workshops</li> </ul>                                        | <ul style="list-style-type: none"> <li>• Weather is a major factor</li> <li>• Appropriate time for staff orientation</li> <li>• Based in New Bedford</li> </ul>                                                                     |
| <b>May - early June</b>              | <ul style="list-style-type: none"> <li>• Daysails for middle and high school children</li> <li>• Evening and daysails for sponsors, community groups, teachers etc.</li> </ul>                               | <ul style="list-style-type: none"> <li>• School is in session</li> <li>• Weather is still a factor</li> <li>• Work in protected waters</li> </ul>                                                                                   |
| <b>June</b>                          | <ul style="list-style-type: none"> <li>• Daysails and some Overnight trips for school children</li> <li>• Passages into Long Island Sound</li> </ul>                                                         | <ul style="list-style-type: none"> <li>• More extended trips possible</li> <li>• Longer trips considered during transition from school programs to summer clients</li> </ul>                                                        |
| <b>July - August</b>                 | <ul style="list-style-type: none"> <li>• Weekend festivals</li> <li>• Extended 5 day trips for educators, students, etc.</li> <li>• Continuing Education courses at UMASS, Rhode Is College, etc.</li> </ul> | <ul style="list-style-type: none"> <li>• Regular schedule along the coast begins</li> <li>• Tourism enhancement</li> <li>• Teacher Training &amp; Workshops for professional development points reqd for recertification</li> </ul> |
| <b>September</b>                     | <ul style="list-style-type: none"> <li>• Weekend Festivals</li> <li>• Coastal trip considered before school startup</li> <li>• Fundraising sails for sponsorship of school programs</li> </ul>               | <ul style="list-style-type: none"> <li>• Schools just coming into session</li> <li>• Usually good weather</li> </ul>                                                                                                                |
| <b>October</b>                       | <ul style="list-style-type: none"> <li>• Daysails and dockside similar to April</li> </ul>                                                                                                                   | <ul style="list-style-type: none"> <li>• Weather begins to turn</li> </ul>                                                                                                                                                          |
| <b>November</b>                      | <ul style="list-style-type: none"> <li>• Dockside programs weather permitting</li> </ul>                                                                                                                     | <ul style="list-style-type: none"> <li>• Haul outs planned</li> <li>• Winterize</li> </ul>                                                                                                                                          |
| <b>Winter Months<br/>Dec - March</b> | <ul style="list-style-type: none"> <li>• Dockside programs and community based events possible</li> <li>• Longer term: reporting program for teens</li> </ul>                                                | <ul style="list-style-type: none"> <li>• Good planning time</li> <li>• Good time to extend outreach</li> </ul>                                                                                                                      |



## ***Guiding Principles for Programs***

- *Ernestina* draws guiding principles for educational programs, program development, staff orientation and philosophy from Common Core of Learning and PALMS.
- Schooner *Ernestina* programs are developed and implemented according to principles that are well described in the Curriculum Frameworks of the Commonwealth developed by the Department of Education as follows:
- All children can learn
- Instruction should be based on the knowledge that learners construct their own meaning
- Instruction should emphasize the quality of understanding rather than the quantity of information presented
- Assessment should be used as a tool to improve instruction and enhance student learning
- Learners need the social and organizational skills developed by working in groups
- Learners learn best in an environment which acknowledges, respects and accommodates each learners backgrounds, learning style and gender
- Learning is a lifelong process that begins and continues in the home and extends to school and community settings
- Students learn by engaging in authentic tasks of inquiry, reasoning and problem solving that reflects real world practice
- Hands on experiences deepen understanding of abstract concepts by encouraging the practice of process skills and communication and allowing for reflective thinking

*Thank you*

*Hector Vega*

*Ezio Pires*

*Scott DeLena*

*Genesis - Garcia*

*Henri - Fonseca*

*José - Sindo*

*Enrique - Maldonado*

*Richard - Graham*  
*Crystal College*

*Holly Souza*

*Helena Soares*

*Jennifer Cobble*

*Mrs. Dydziewicz*

*A. J. Gomes*  
*School*

## **Program Outline**

Six topics will be explored at six teaching stations.

*The full curriculum includes at each station a wide range of activities which are inquiry-based, hands-on and have been developed in conjunction with the PALMS initiative activity in New Bedford and the region. Each subject has been developed in consultation with curricula specialists in the New Bedford schools and elsewhere. The small group instruction will occur at each station engaging participants in sequential activities around all six topics. Integral with specific subject work, general issues of equity and inclusion are addressed within the framework of activities and discussions.*

### **Station #1**

#### **Topic: WORK TO BE DONE**

This station will explore tasks; actual jobs that must be done to accomplish the work of a ship. Looking at the challenge of moving equipment, cargo, the ship itself, students will be exploring the physics and logistics of "getting the work done." From a basic discussion of what a given task calls for, what resources are needed and how they can be applied, to a more sophisticated set of problems and concepts involving alternative solutions and consideration of how others have solved these problems (i.e. fifty years ago? one hundred years ago? in Cape Verde? in the Arctic?), participants will learn by doing and *concurrently* processing through collaboration and discussion.

Basic physics and math concepts and the opportunity to explore them, using them for doing a job and, hence, understand them better are ever-present at this station. A constant processing of the subject of energy transfer is natural here. Familiarity and use of the tools of work are an important element of instruction. Tools, devices, machines - their design, evolution and application will be the natural "lenses" through which to view the general subject of mechanical advantage.

### **Station #2**

#### **Topic: ORIENTATION**

Beginning with basic concepts and realizations of self, senses and the immediate reality of "you " - as a sensor, a receptor and processor - this station explores the facts about and notions people have (and have had) regarding location, direction, duration, place and position. This will lead to activities and procedures (mostly experienced through problem solving games) that sharpen and expand perception, detection, deduction, conclusion, recording and communicating.

"Finding out where we are" is a huge topic that will involve things as basic as one's own senses, logic, reason and intuition or as complex and far-flung as radar and satellite telemetry. This station will include much interaction between individuals (group problem solving), keen awareness of surroundings (observation skills) and an expanding view of technology, simple and complex. The natural progression of this subject will lead to map making and traditional navigational activities.

In a progressive way throughout the sequence this station will also deal with other aspects of orientation and navigation; that is, how do others navigate? other species, other cultures, other technologies?

### **Station #3**

#### **Topic: SCHOONER *ERNESTINA* IN THE BIOSPHERE**

This station will focus on the environment, which for a ship can often change. Students will examine (literally) the immediate environment, taking samples of water, sand, flora and fauna (when possible) and processing their observations. This basic work of really *looking closely* at the aquatic and atmospheric environment will be the

foundation of considerations and comparisons to follow. Considering where *ERNESTINA* has been in her century on the oceans, what environments has she seen? What might one find in the "biosphere" of western Africa? of Greenland? Why is it different? Very basic geographical, geological and meteorological material will be processed here.

Using hands-on experience and (as often as possible) first-hand data as a base-line, extended activities will deal with weather systems, the relationship between atmosphere and ocean and the land-sea interface, both coastal and benthic. In this process participants will naturally and continually be posing and answering interdisciplinary questions of chemistry, physics, biology, zoology and ecology.

#### **Station #4**

##### **Topic: LEAVING A WAKE**

Closely related to Station #3, LEAVING A WAKE looks at the impact of humankind on the environment in general and the oceans in particular. If the BIOSPHERE station explores the world we're surrounded by, this station asks how that environment is changed by our presence, our activity, our action or inaction. These questions will naturally present themselves as students become more observant, aware and knowledgeable about the marine and coastal environment. Questions raised here often lead into an extended discussion of human impact on a variety of ecosystems.

How has *ERNESTINA* had an impact on the varied environments of her many voyages? as a fishing schooner? as an exploration vessel? as a transAtlantic packet and immigration ship? What do people leave in their wakes? Are the impacts permanent or temporary? How do we measure them?

From dealing with these "physical" issues the work at this station will graduate to considerations of social impact. The effect of people on the natural world and people on other people focuses of a new set of questions about immigration, social change, economics and politics. Ironically, participants often come to a discussion of themselves and their futures - *their* learning activities now being part of *ERNESTINA's* wake.

#### **Station #5**

##### **Topic: MOLECULES IN MOTION**

This station is at the same time the most concrete and the most conceptual of all. It deals with the systems that are evident at every turn aboard Schooner *ERNESTINA* - systems of energy, power, transfer, communication, resistance, attainment, security. The organization and dynamics of the flow of molecules in their infinite variety: natural energy, mechanical systems, human endeavor - this is the theme of Station #5.

The ship itself is a great system or construct, as is the well functioning crew. The engine room and the galley are both amazingly complex and each one crucial to the success of the vessel and the goals of her people. These and other systems will be examined, operated and experienced: the wind-to-mast-to-hull-to-water system, the groceries-to-galley-to-hungry-crew system, the fossil-fuel-to-diesel-engine-to-generator-to-lightbulb system.

People and the efficiency and effectiveness of their skills (a great flow of human molecules) preserve the ship; out on the ocean the ship, an equally complex and amazing matrix of systems in motion, preserves the crew - this is the biggest picture and understanding it will be the goal of this station.



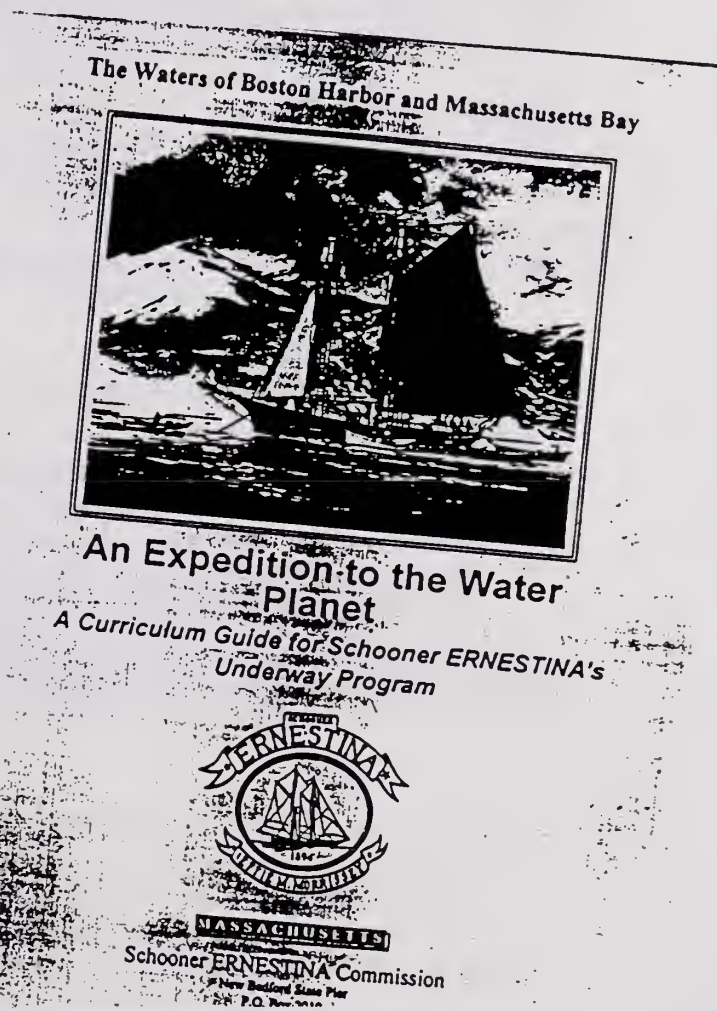
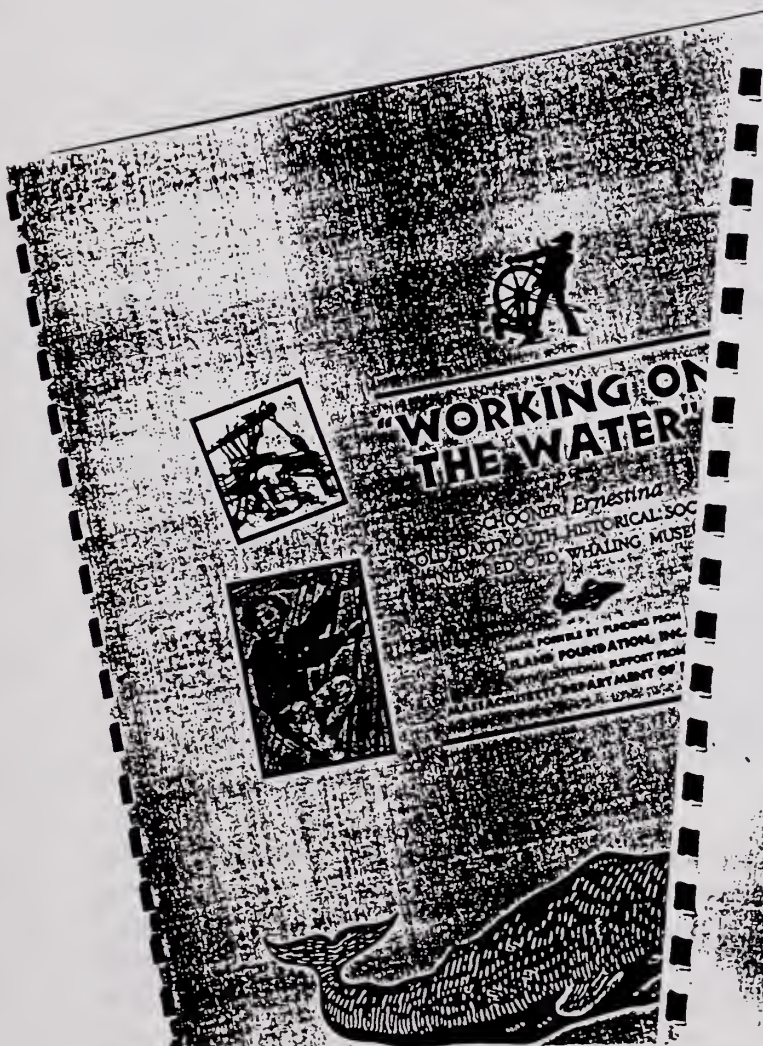
## Station #6

### Topic: MAKING A PASSAGE - WHY WE DO IT

Here the human factor is central. Ambition, identity, self-worth, confidence and a number of other topics important to all of us will begin the discussion of why. Why do people take a chance? The people of *ERNESTINA*, in every one of her lives, have always taken huge chances. What were they hoping for? What did they attain? What did it take?

This station will examine the lives of past crews of Schooner *ERNESTINA*. Story telling and role playing is sometimes employed in combined with information and insight gained at other stations to give participants a grounding and familiarity with the ship and her history.

Coordinating with the WORK station, the fishing era of the ship's history will be discussed in relation to the current situation of the fishing industry. Relating to issues raised at the BIOSPHERE station, MAKING A PASSAGE will give a framework for discussion of social and economic trends. Demographics and the dynamics of immigration will include consideration of political issues, the effect of draught and famine and the notions of homeland and adopted citizenship.



## ***Schooner Ernestina Commissioners***

(\* indicates state agency members and their designees)

### **Commissioners and Designees**

#### **Mr. John Braman** \*(designee)

Work: Lesley College/Center for Peaceable Schools/29 Everett St./Cambridge, MA 02138-2790  
617-349-8491/8176 FAX: 617-349-8668, E-mail: jbraman@mail.lesley.edu

Designee of: **Dr. Robert V. Antonucci**,\* Commissioner of Education/Massachusetts Dept. of Education/350 Main Street/Malden, MA 02148-5023; Phone: 617-388-3300; FAX: 617-388-3392

#### **Mr. Blair Brown**

Work: Charrette /31 Olympia Avenue/Woburn, MA 01801  
617-965-9545, 617-935-6000, ext. 301 FAX: 617-965-2532 or 617-965-8089

#### **Mr. H. James Brown**

Work: Lincoln Institute for Land Policy, Cambridge, MA  
617-661-3016 FAX: (W) 617-661-7235

#### **Mr. Carl J. Cruz**

Work: Bristol County Probate and Family Court, 505 Pleasant Street, New Bedford, MA 02740  
508-999-5249 FAX: 508-991-7421

#### **Ms. Mary Jane McKenna, Peter Lee** (designee)\*

Director, Massachusetts Travel and Tourism

Work: MA Travel and Tourism/100 Cambridge Street/13th Floor/Boston, MA 02202  
617-727-3201, ext. 208 FAX: 617-727-6525

#### **Mr. Peter J. Lawrence**

Work: American Overseas Marine Corp./116 East Howard Street/Quincy, MA 02169  
617-786-8300; Sec.: Leslie, ext. 414 FAX: 617-770-4568 or 617-472-4925

#### **Ms. Pauline Macedo**

Work: Macedo Pharmacy/117 Rockdale Ave./New Bedford, MA 02740  
508-996-6768 FAX: 508-996-2709

#### **Ms. Marion McConnell**

P.O. Box 832/Cotuit, MA 02635; 508-428-9573  
FAX: 508-428-4636

#### **Mr. Peter Smith 1994-1996, Martin Suuberg 1997**(designee) \*

Deputy Commissioner, Massachusetts Dept. of Environmental Management, Division of Resource Conservation

Work: MA Dept. of Environmental Management/Division of Resource Conservation  
100 Cambridge Street/14th Floor/Boston, MA 02202  
617-727-3160, ext. 500 FAX: 617-727-2630

Designee of: **Peter C. Webber**,\* Commissioner, MA Dept. of Environmental Management/100 Cambridge St./19th Floor/Boston, MA 02202; 617-727-3180, ext. 601; FAX: 617-727-2630



## ***Schooner Ernestina Staff***

### **Executive Director**

**Mr. Gregg Swanzey**

Work: Schooner Ernestina Commission/P.O. Box 2010/State Pier/New Bedford, MA 02740-2010  
508-992-4900 FAX: 508-984-7719 E-mail: swanzey@ultranet.com

### **Program Coordinator**

**Tom Goux**

Same as Executive Director

### **DEM Support Staff**

**Charlie Gibson**

Project Manager, DEM, Division of Resource Conservation

Work: Mass. Dept. of Environmental Management/Div. of Resource Conservation/100 Cambridge  
Street/14th Floor/Boston, MA 02202

617-727-3160, ext. 575 FAX: 617-727-2630

## ***Personal Bios of Schooner Ernestina Office Staff***

**Gregg Swanzey** is executive director for the Schooner ERNESTINA Commission. While completing a degree at Cornell University, Gregg participated in the marine science program at Shoals Marine Labs off Portsmouth, NH during two summers and Sea Education Association at-sea experience based in Woods Hole aboard WESTWARD. These formative experiences set Gregg on a career path that has involved him in a remarkable series of exceptional mission-driven programs. He has participated in the Ocean Research and Education Society's Humpback whale research and education programs to Greenland, sailing from Boston aboard a 144' barkentine, REGINA MARIS. He has led a number of transAtlantic shipboard classroom programs, including the Landmark School program for dyslexic high school students and a Soviet -American citizens' diplomatic sail from Leningrad to New York City, aboard a 156' Dutch flag schooner, TE VEGA. He came to ERNESTINA after ten years with Clearwater, Inc., a New York based environmental organization that offers educational programs to 15,000 school children each year on the 106' sloop CLEARWATER.

**Tom Goux** is program coordinator. In charge of outreach, communications and information, Tom works closely with the many community groups and school districts that take advantage of ERNESTINA's offerings. He is among the leading interpreters of New England maritime folklore and traditional music of the sea and holds a degree in Music from Southern Illinois University. He has been a guest lecturer at the Sea Education Association, Woods Hole, Mystic Seaport Museum, the Kendall Whaling Museum and other maritime, musical and historical institutions across the country. Tom makes his home in Falmouth on Cape Cod, where he served in the public schools as teacher, conductor and head of the music faculty for 20 years. He also directs the Cape Cod Mostly Men's Chorus, an 85-voice civic choir. For ten years prior to taking his post as program coordinator, Tom was an active Schooner ERNESTINA volunteer.

**Alan Lee Hankin, Ph.D.** serves as project director for ERNESTINA's Sea Connections and was consultant for the development of the Leaving a Wake curriculum. He is also Special Assistant to the President at Hampshire College, on the faculty at Emerson College and Principle Investigator for DOE and EOEA on program design for integrating global environmental change, environmental education and science education statewide. He was



Associate Director for Programs and Exhibits at the New England Aquarium and was founding director at the Lloyd Center for Environmental Studies in South Dartmouth.

## ***Personal Bios of Staff on Schooner Ernestina***

### **Sailing Season 1996**

**Tora Johnson** comes to ERNESTINA as shipboard program director with a rich background of research and teaching in the fields of marine biology and environmental education. She has developed and implemented curricula for programs on Long Island Sound, New York Harbor, Mystic River, Hudson River and Fisher's Island Sound under the auspices of the Voyager Cruises Coastal Ecology Program, the *CLEARWATER* programs and Williams College-Mystic Seaport Program in American Maritime Studies. These activities have brought her a broad range of students including elementary, special education, at-risk youth, secondary and university level. Tora is a graduate of the University of Oregon and did post-graduate research work at the Oregon Institute of Marine Biology. Tora lives out on Martha's Vineyard.

**Caitlin Schwarzman** is an English teacher and Resource Center Director for Mercy High School, San Francisco, during the school year and comes to ERNESTINA as shipboard program director for periods during the summer. Her background is extensive both at sea and ashore. She has developed curricula and served as education coordinator for Sail, Inc. in Maine on the Schooner HARVEY GAMAGE and for Vision Quest on Schooners NEW WAY and TOLE MOUR. After graduating magna cum laude in Art and English from Carleton College in Northfield, MN, she taught in Guam and San Francisco and coordinated peer tutoring, counseled students, implemented and assessed individual education plans, prepared students for GED and taught ESL. Caitlin is from Falmouth, MA.

**Aaren Freeman** is a lead educator aboard ERNESTINA and often serves as shipboard program director. His educational background includes a BA in Biology from Swarthmore College and successful grants for environmental studies and community improvement projects. He is currently at UMASS Dartmouth pursuing a MS degree in Marine Biology while preparing to sit for his Captain's license. His shipboard experience includes Atlantic and Pacific experience on Marimed Foundation's educational ship TOLE MOUR, Sound Experience's (Puget Sound) environmental educational ship ADVENTURESS and Hudson River Sloop CLEARWATER. Aaren is an EMT and a certified scuba diver. He hails from Brewster on Cape Cod.

**Traudi Coli** is ERNESTINA's onboard anthropologist. She holds a graduate degree from Rhode Island College's African and Afro-American Studies Program where she studied the history and culture of the Cape Verde Islands with a special interest in the sailing packet trade. A long-time devotee to the ERNESTINA cause, Traudi can "reef, hand and steer" with sailors twice (or three times) her size. During ERNESTINA's 1994 season she worked 45 days as a volunteer and has signed on the past two years as a professional deckhand/educator. Traudi is fluent in six languages and holds a second graduate degree in the field of Health Care.

**Jeff Stone** comes to ERNESTINA as captain, holding a 1600 ton Ocean License earned over twenty-five years at sea. With sea time aboard everything from classic yachts to oceangoing tugs, tankers and container ships, he served for four years in the U.S. Coast Guard and has worked in the merchant fleet worldwide. His experience under sail includes the SSV BRILLIANT with Mystic Seaport

Museum, the Racing Sloop *NEITH*, Sea Education Association's oceanographic research and education vessels *WESTWARD* and *CORWITH CRAMER* and, most recently, the *SPIRIT OF MASSACHUSETTS*. Jeff is also a classical guitarist and holds a degree in Musicology from San Francisco State College.

**Amanda Madeira** serves as first mate and also holds a Captain's license. She possesses remarkable skills as an educator gained through years of training and professional experience with programs aboard *HARVEY GAMAGE*, *REGINA MARIS*, *ANNE KRISTINE*, *WHEN & IF* and *BOWDOIN*. Most recently, she has worked with Schooner *ADVENTURESS*, on Puget Sound, which offers a program focused on environmental education for public school children. As a student at Hampshire College, Amanda became especially interested in salt marsh ecology and did extensive field work here in southeastern New England. Amanda is also one of *ERNESTINA*'s active visual artists, having received a Master of Arts degree from Montserrat College of Art, as a sculptor. She is the organization's north shore resident: from Manchester, MA.

**Jon Burt** often fills the first mate slot and also holds a Captain's license. He comes to *ERNESTINA* after a long voyage on the Canadian school ship *CONCORDIA*, from St. John's, New Brunswick to Durban, South Africa, and years of experience with educational programs on *ADVENTURESS* in Puget Sound and *TOLE MOUR*, in Hawaii. Like many involved with education programs aboard sailing vessels underway, he participated in Sea Education Association's Sea Semester while a student at Connecticut College, where he received a BA in Economics. Working with *ERNESTINA* returns Jon to home waters: he also hails from the Cape and worked at Cotuit Yacht Club and Waquoit Bay Yacht Club during and after college.

**Fred Sterner**, who resides shoreside in nearby East Freetown, MA, is mate, holds a Captain's license and brings considerable engineering and carpentry skills to *ERNESTINA*. His diverse background includes teaching (vocational-technical alternative energy program) and the corporate business world (sales manager, computer marketing). He now runs a brisk home-based business when he's not aboard *ERNESTINA*. His schooner experience includes *SPIRIT OF MASSACHUSETTS*, the Sea Education Association and numerous large, privately owned sailing vessels. He is Commodore of the American Schooner Association. Fred holds a BS degree in Liberal Studies from the State University of New York.

**Doug Randall** serves as mate and holds a Captain's license. Doug is in the mainstream of maritime preservation and education. As a scholar he has done archival work at the USS *CONSTITUTION* Museum with the Joshua Humphries Papers; as a sailor he has shipped aboard *HARVEY GAMAGE*, *SHENANDOAH*, *CALIFORNIAN* and with the *R. TUCKER THOMPSON*, an educational sailing program in New Zealand. He has managed the effort to preserve the historic tugboat *LUNA* (*LUNA* Preservation Society, Boston) and worked on the Steering and Background Committees for the Harbor Visions Charrette, held in Boston fall '95. Doug has represented Schooner *ERNESTINA* at meetings of the National Trust for Historic Preservation and the American Sail Training Association. He has also worked in graphic design and holds a B.A. from California State University, Long Beach.

**Ken Cabral** has served onboard *ERNESTINA* the last two years as steward. Retired from a career in law enforcement, he is also a visual artist and coordinates, on a volunteer basis, the interests and energies of *ERNESTINA*'s artistic friends. He pursues arts funding to coordinate *ERNESTINA*'s arts activities with arts communities in ports of call. Ken is a graduate of Boston



School of Fine Arts and Bryant College's Law Enforcement Program. He participated in the Community Gardening Program at URI and the Management Program at Johnson and Wales University. He brings all his talents together on *ERNESTINA*: supervising the galley, presenting fine meals, serving as an excellent teacher, especially in programs for youth, and drawing on wonderful contacts and resources for *ERNESTINA*'s festival events through his connections in Rhode Island's artistic community.

**Joe Waple** has come aboard as relief steward. He holds a BS in Foodservice Management from Johnson and Wales University and has experience as Banquet Chef, staff supervisor and caterer. He comes to *ERNESTINA*'s waters from Virginia where he developed his love for seafood: both catching it and preparing it!

**Peter Marshall** is the ship's philosopher/engineer, having received a BA in Philosophy from Brown University and pursued graduate work at Columbia University. However, Peter has divided his time between library, laboratory and engine room: he served aboard the *LETTIE G HOWARD* at South Street Seaport Museum in New York City before coming aboard *ERNESTINA* for the 1996 season. He can not only troubleshoot typical engineering problems, but he brings to his work a broad knowledge and considerable experience in mechanical design. While at Columbia, he worked in the Astrophysics Lab designing precision optical mounts and automated test apparatus. This remarkable math, science and technology background has been important in filling out *ERNESTINA*'s multidisciplinary focus.

**Joe Andrade** is the crew member with perhaps the most time aboard Schooner *ERNESTINA*. Joe shipped on as an apprentice with Capt. Dan Moreland for several summers and traveled thousands of miles aboard the vessel, learning the skills of deckhand. Since that time he has served in the U.S. Army Reserves and is now completing his degree in Aviation Science at Bridgewater State College. He speaks several languages and, along with Ken Cabral, helps to represent the Cape Verdean community aboard. He is a native of New Bedford.

**Aaron Macedo** is serving as deckhand while developing his skills as a sail training instructor, engineer and bos'n. He has sailed previously as volunteer crew and works through the year on maintenance projects along with Marty Casey and other volunteers. Last winter Aaron served on the *CALIFORNIAN*, along the west coast, but comes back to his home town of New Bedford to teach on his favorite ship, *ERNESTINA*. Aaron is close to gaining his Able Bodied Seaman's Certificate and has put many miles behind him on board the ship. He has worked as a regular crew member since 1994.

**Steve Swift** served as volunteer aboard *ERNESTINA* so often in the 1995 and 1996 sailing seasons, one would think he was a regular crew member. This fall he was formally hired on. Steve career has included classroom experience as a math and science teacher at Uxbridge High School and a long tenure as a Physical Scientist for the U.S.Army's RD&E Center, Natick, MA. Steve holds an MS degree in Foods and Nutrition and a BS in Textile Chemistry.

**Sophia Morse** holds a MS in Environmental and Natural Resource Economics from URI and a BA in Marine Affairs and Russian from URI. She is a published scholar and has examined the economic and environmental impact of wildlife protection regimes in the upper reaches of North America. She was project coordinator for Smithsonian Institution archeological summer expeditions aboard a 50' research vessel in Arctic Canada. Now aboard *ERNESTINA* she serves as both educator and USCG licensed Mate.

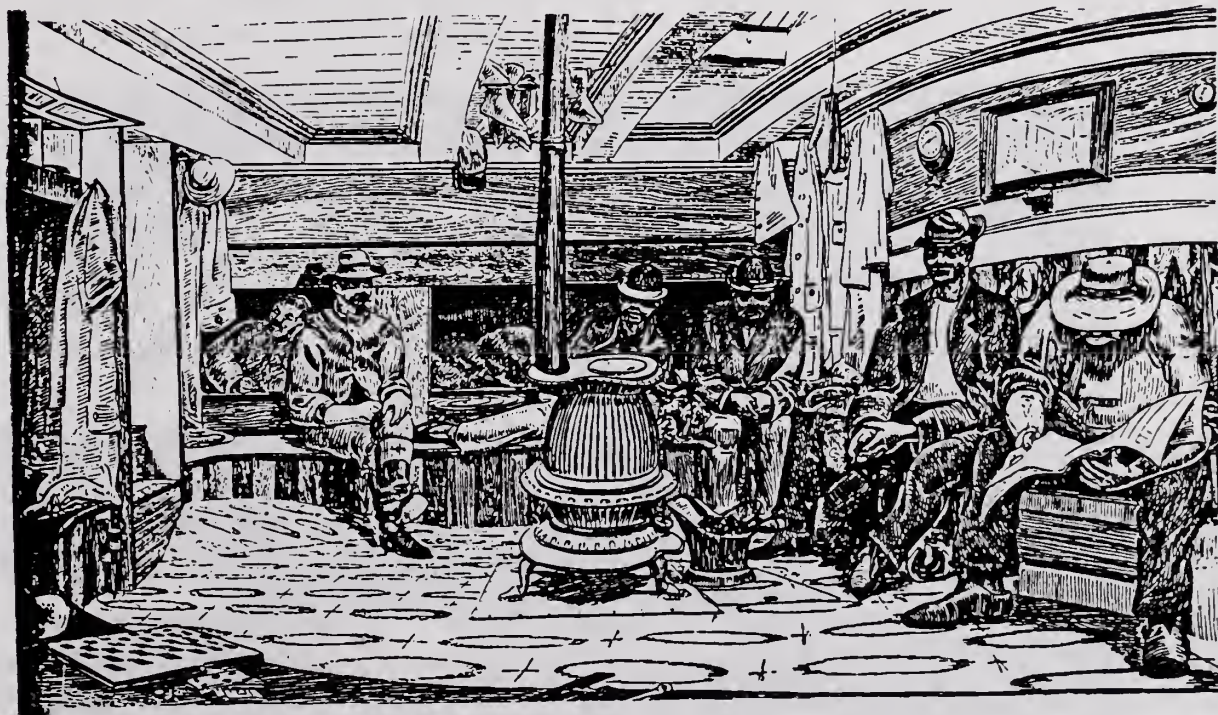


**Bob Marchand** is joining us again this year at the very close of the season as a skilled deckhand. With years of experience as a builder, construction project manager and businessman, Bob brings a wide range of skills and a great spirit to the ship along with his handiness and abilities as a natural teacher. Bob volunteered extensively in 1994 and 1995. Last year he came on as a part-time paid staff member.

### ***Personal Bios of Interns on Schooner Ernestina***

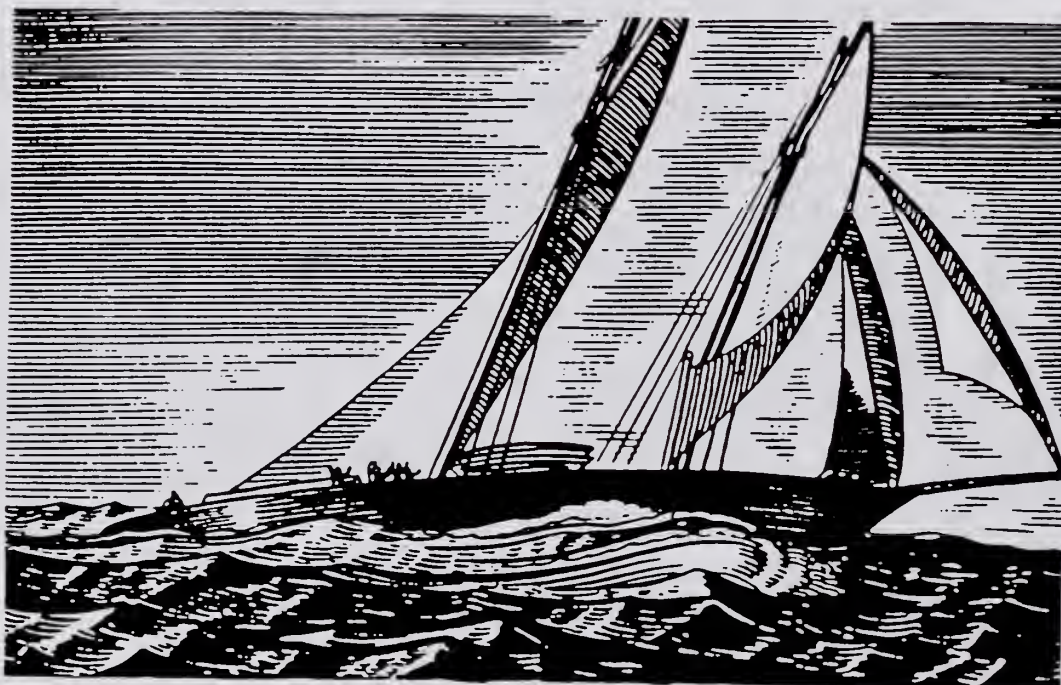
**Zdravka Tzankova** came to ERNESTINA from Mystic Seaport Museum as a result of a program at Williams College Mystic Maritime Studies Program and a primary source research project last winter at the G.W. Blunt White Library. She is a student at Mount Holyoke College with a major in International Relations and concentrations in Economics and Spanish. Her home is Bulgaria.

**Daniel von Schiller** came to ERNESTINA between high school and his first year of college from his home in Madrid, Spain to sail as full time crew member the summer of 1996. His fluency in Spanish and German proved invaluable and his interest in Marine Sciences fit perfectly with ERNESTINA's developing educational program. He certainly made his mark! This fall Dan is attending Suffolk University.



## ***Accomplishments of 1994***

- During 1993 ERNESTINA lay at the shipyard in Fairhaven with no masts and no organization. The first steps included completing capital improvements, setting up a new Commission under the new legislation, and starting up the business of running the ship and programs.
- Commission ByLaws and Policy Manual were written to establish the governance of the organization
- \$100T debt (from 1990-1992) repayment program successfully completed
- Office startup: from the ground up
  - Administration, personnel policy, database, management systems, and general organization, etc. were established.
  - A computer (486DX w/ windows) and fax machine were acquired and installed
- Dual certification from US Coast Guard received
- Brochure, displays and information created
- 300 person-days from our volunteers
- Membership program initiated
- Financial statements generated for 1990 through 1994





### ***Accomplishments of 1995***

- Ernestina's first full sailing season under new legislation
- 2,500 school children, 650 teachers/educators, 25,000 visitors
- First Business Plan Published
- Financial statements through FY 1994 completed
- First State Audit since FY1990 successfully completed
- Transition to MMARS system
- Covered 3000 miles of water w/ 97 days underway
- Ernestina's credibility substantially rebuilt and constituencies reengaged

### ***Accomplishments of 1996***

- 3,300 school children, 300 teachers/educators, 30,000 visitors
- *Working on the Water* Curriculum Guide developed
- *Expedition to the Water Planet* Curriculum Guide developed
- Sea Connections PALMS Summer Content Institute developed and ranks high in Lesley College state-wide evaluation
- Dockside Interpretative Display developed (Seven Panels)
- Homepage <http://www.ernestina.org>
- Presentational Video produced
- New Bedford Whaling National Historical Park includes *Ernestina*
- \$125,000 earmarked funding from DEM through legislative action
- Successful ISTE A proposal for \$140,000 capital improvements





## Program Statistics for 1995

### Statistics

|                                                          |                                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------|
| School Children Aboard for Programs.....                 | 2500                                                                           |
| Teachers/Educators Aboard for Workshops.....             | 650                                                                            |
| Number of Members .....                                  | 275 memberships/Equivalent of approx 600 persons and growing @ 25-40 per month |
| Number of Member Sail opportunities to date in 1995..... | 30                                                                             |
| Department of Youth Services.....                        | 5 Sails = 60 youth/20 caseworkers                                              |
| # days from volunteers .....                             | 300 days last year, 200 so far this year                                       |
| Visitation annual .....                                  | Aprox 25,000 persons                                                           |

### Funders

|                                                       |                                                     |
|-------------------------------------------------------|-----------------------------------------------------|
| Boston Public Schools                                 | John Hancock Insurance (in-kind)                    |
| Boston Marine Society                                 | Massachusetts Office of Travel and Tourism          |
| Department of Youth Services                          | UMASS-Dartmouth                                     |
| Department of Education                               | Ernestina/Morrissey Historical Association          |
| Department of Environmental Management                | Ocean Spray Cranberries                             |
| Martha's Vineyard School                              | Fall River Chamber of Commerce                      |
| Westport High School                                  | Beaver Country Day School                           |
| Buzzards Bay Rim Project                              | Southern Connecticut State University               |
| New Bedford Public Schools                            | Portuguese Geneological Society of Marthas Vineyard |
| City of New Bedford                                   | Schooner Adventure of Gloucester                    |
| Sharon Public Schools                                 | Architectural Heritage Foundation                   |
| Mass Bays Program                                     | Hildreth Stewart Charitable Foundation              |
| Taunton River Watershed Connections Project           | Cambridge Friends Academy                           |
| Save the Harbor/Save the Bay                          | Provincetown Public Schools                         |
| Mass Marine Educators                                 | Massachusetts Port Authority                        |
| NYNEX                                                 | Coalition for Buzzards Bay                          |
| The New Bedford Standard-Times                        | Teledyne Rodney Metals                              |
| The Lloyd Center                                      | ....various individual donors and members           |
| Rhode Is. Historic Preservation & Heritage Commission |                                                     |

### Program Listing to Date 1995

|        |                                        |                 |          |    |
|--------|----------------------------------------|-----------------|----------|----|
| BOSTON | Monday, May 15                         |                 |          |    |
|        | Mary E. Curley Middle School           | 9:30-10:30am    | Dockside | 45 |
|        |                                        | 11:00-12:00noon | Dockside | 45 |
|        | Tuesday, May 16                        |                 |          |    |
|        | Stone Elementary & Farragut Elementary | 10:00-11:30am   | Dockside | 49 |
|        | Warren-Prescott Elementary             | 12:00-1:30pm    | Dockside | 60 |
|        | Wednesday, May 17                      |                 |          |    |
|        | Martin Luther King MS                  | 10:00-12:00noon | Daysail  | 60 |
|        | Harvard-Kent Elementary                | 12:00-1:30pm    | Dockside | 60 |
|        | Department of Education                | 3:30-7:30pm     | Daysail  | 45 |
|        | Thursday, May 18                       |                 |          |    |
|        | Madison Park HS                        | 9:00-11:30      | Daysail  | 50 |
|        | Harvard-Kent Elementary                | 12:00-1:30pm    | Dockside | 50 |
|        | Friday, May 19                         |                 |          |    |
|        | Charlestown HS                         | 8:00-11:30      | Daysail  | 55 |
|        | Warren-Prescott Elementary             | 12:00-1:30pm    | Dockside | 55 |

|                      |                                                   |                 |                 |      |
|----------------------|---------------------------------------------------|-----------------|-----------------|------|
| NEW BEDFORD - BOSTON | Saturday, May 20                                  |                 |                 |      |
|                      | Mass Maritime Cadets                              | all day         | transit         | 10   |
| MARTHA'S VINEYARD    | Westport HS Special Needs                         | all day         | transit         | 8    |
|                      | Sunday, May 21 through Monday, May 22             |                 |                 |      |
|                      | DYS/Southeast Region                              | two day         | overnight       | 12/4 |
| N.B. - BOSTON        | Wednesday, May 24                                 |                 |                 |      |
|                      | Martha's Vineyard Elementary                      | 8:45-10:45      | Dockside        | 60   |
|                      |                                                   | 11:00-1:15pm    | Dockside        | 60   |
|                      | Martha's Vineyard HS/teachers                     | 3:00-6:30pm     | Daysail         | 65   |
| BOSTON - N.B.        | Thursday, May 25                                  |                 |                 |      |
|                      | Martha's Vineyard Elementary                      | 8:45-10:45am    | Dockside        | 60   |
|                      |                                                   | 11:00-1:15pm    | Dockside        | 60   |
|                      | Martha's Vineyard HS/Multi-Cultural Club & CHIPS  | 3:00-7:00pm     | Daysail         | 65   |
| BOSTON - N.B.        | Friday, May 26                                    |                 |                 |      |
|                      | Buzzards Bay Rim Project/Teachers Reception/UMASS | 6:00-8:00pm     | Dockside        | 65   |
| BOSTON - N.B.        | Saturday, May 27                                  |                 |                 |      |
|                      | Public Open House                                 | 4:00-7:00pm     | Dockside        | 80   |
| BOSTON - N.B.        | Tuesday, May 30                                   |                 |                 |      |
|                      | Condon Elementary                                 | 9:30-10:45am    | Dockside        | 60   |
|                      |                                                   | 10:45-12:00noon | Dockside        | 60   |
|                      | Mass. State Science Fair Winners                  | 5:00-9:00pm     | Daysail         | 65   |
| BOSTON - N.B.        | Wednesday, May 31                                 |                 |                 |      |
|                      | Boston Latin Academy                              | 8:30-11:45am    | Daysail         | 55   |
|                      | Dearborn Middle School                            | 12:00-4:00pm    | Daysail         | 65   |
|                      | Mass. State Science Fair Winners                  | 5:00-9:00pm     | Daysail         | 65   |
| BOSTON - N.B.        | Thursday, June 1                                  |                 |                 |      |
|                      | Mass Bays Program Teachers                        | 3:30-4:30pm     | Visitors Center |      |
|                      |                                                   | 5:00-8:00pm     | Daysail         | 70   |
| BOSTON - N.B.        | Friday, June 2                                    |                 |                 |      |
|                      | Mass Bays Program Teachers                        | 5:00-8:00pm     | Daysail         | 70   |
| BOSTON - N.B.        | Saturday, June 3                                  |                 |                 |      |
|                      | Mass Marine Educators                             |                 |                 |      |
|                      | & Save the Harbor/Save the Bay                    | 8:00-1:00pm     | Daysail         | 60   |
|                      |                                                   | 2:00-7:00pm     | Daysail         | 60   |
| BOSTON - N.B.        | Monday, June 5                                    |                 |                 |      |
|                      | Beverly Farms Middle School                       | overnight       | Dockside        | 13   |
| BOSTON - N.B.        | Tuesday, June 6                                   |                 |                 |      |
|                      | Beverly Farms Middle School                       | morning         | Transit         | 13   |
|                      | Mass Maritime Academy                             | morning         | Transit         | 6    |
|                      | Boston Globe Contest Winners                      | morning         | Transit         | 4    |
| BOSTON - N.B.        | Thursday, June 8                                  |                 |                 |      |
|                      | Mass Bays Program Teachers                        | 5:00-8:00pm     | Daysail         | 70   |
| BOSTON - N.B.        | Friday, June 9                                    |                 |                 |      |
|                      | Envirothon Winners                                | all day         | Transit         | 7    |
| BOSTON - N.B.        | Saturday, June 10 through Monday, June 12         |                 |                 |      |
|                      | DYS/Southeast Region                              | three day       | Overnight       | 12/4 |
| BOSTON - N.B.        | Tuesday, June 13                                  |                 |                 |      |
|                      | Sharon Middle School                              | 10:00-2:00pm    | Daysail         | 60   |
| BOSTON - N.B.        | Wednesday, June 14                                |                 |                 |      |
|                      | Sharon Middle School                              | 10:00-2:00pm    | Daysail         | 60   |
| BOSTON - N.B.        | Thursday, June 15                                 |                 |                 |      |
|                      | Sharon Middle School                              | 10:00-2:00pm    | Daysail         | 60   |
| BOSTON - N.B.        | Friday, June 16                                   |                 |                 |      |
|                      | Dunbar Middle School                              | 9:00-10:30am    | Dockside        | 27   |
|                      | PALMS Teachers Workshop                           | 3:00-8:00pm     | Dockside        | 60   |
| BOSTON - N.B.        | Sunday, June 18 through Tuesday, June 18          |                 |                 |      |
|                      | DYS/Southeast Region                              | three day       | Overnight       | 12/4 |

|                     |                                                                  |                                |                     |          |
|---------------------|------------------------------------------------------------------|--------------------------------|---------------------|----------|
| N.B. — FALL RIVER — | Thursday, June 22                                                |                                |                     |          |
|                     | Taunton River Watershed Connections Project                      | 2:00-4:30pm<br>5:00-8:00pm     | Dockside<br>Daysail | 45<br>65 |
| N.B. — FALL RIVER — | Friday, June 23                                                  |                                |                     |          |
|                     | Museum Discovery/Teachers Workshop                               | 8:00-5:00pm                    | Transit             | 50       |
| N.B. — FALL RIVER — | Saturday, June 24                                                |                                |                     |          |
|                     | PALMS Teachers Workshop                                          | 10:00-2:00pm                   | Daysail             | 55       |
| N.B. — FALL RIVER — | Sunday, June 25 through Monday, June 26                          |                                |                     |          |
|                     | DYS/Southeast Region                                             | two day                        | Overnight           | 12/4     |
| N.B. — FALL RIVER — | Thursday, June 29                                                |                                |                     |          |
|                     | Member Sail                                                      | 6:00-9:00pm                    | Daysail             | 40       |
| N.B. — FALL RIVER — | Friday, June 30 through Sunday July 2                            |                                |                     |          |
|                     | Open to the Public                                               | 11:00-5:00pm                   |                     |          |
| N.B. — FALL RIVER — | Blessing of the Fleet/ Lead Ship                                 | 1:00-3:00pm                    | Daysail             | 75       |
|                     | Fireworks Sail for Sponsors w/ Standard-Times                    | 8:00-10:00pm                   | Daysail             | 65       |
| N.B. — FALL RIVER — | Monday, July 3 through Friday, July 7                            |                                |                     |          |
|                     | Maintenance                                                      |                                |                     |          |
| N.B. — FALL RIVER — | Wednesday, July 5                                                |                                |                     |          |
|                     | Open House with Spirit of Massachusetts                          | 4:00-7:00pm                    | Dockside            | 50       |
| N.B. — FALL RIVER — | Sunday, July 9                                                   |                                |                     |          |
|                     | Cape Verdean Recognition Day/Rhode Island Heritage Comm Festival | 9:00-12:00noon<br>12:00-8:00pm | Daysail<br>Dockside | 55       |
| N.B. — FALL RIVER — | Monday, July 10                                                  |                                |                     |          |
|                     | Member Transit                                                   | 9:00-5:00pm                    | Transit             | 20       |
| N.B. — FALL RIVER — | Wednesday, July 12                                               |                                |                     |          |
|                     | Member Transit                                                   | 9:00-5:00pm                    | Transit             | 15       |
| N.B. — FALL RIVER — | Thursday, July 13                                                |                                |                     |          |
|                     | John Hancock Insurance Co.                                       | 5:30-9:30                      | Daysail             | 70       |
| N.B. — FALL RIVER — | Saturday, July 15                                                |                                |                     |          |
|                     | Antique Boat Show                                                | all day                        | Dockside            |          |
| N.B. — FALL RIVER — | Open House in Quincy                                             | 6:30-9:30                      | Dockside            |          |
| N.B. — FALL RIVER — | Sunday, July 16                                                  |                                |                     |          |
|                     | Member Transit                                                   | 9:00-12:00                     | Transit             |          |
| N.B. — FALL RIVER — | Development Sail w/ Commission                                   | 5:00-8:00                      | Daysail             | 70       |
| N.B. — FALL RIVER — | Tuesday, July 18 through AM Thursday, July 20                    |                                |                     |          |
|                     | Public Sails                                                     | 1:00-4:00 & 5:30-8:30          | Daysails            |          |
| N.B. — FALL RIVER — | Thursday, July 20                                                |                                |                     |          |
|                     | Member Transit                                                   | 12:30-11:00pm                  | Transit             | 5        |
| N.B. — FALL RIVER — | Friday, July 21                                                  |                                |                     |          |
|                     | Member Sail                                                      | 6:00-9:00pm                    | Daysail             | 40       |
| N.B. — FALL RIVER — | Saturday, July 22 through Monday, July 24                        |                                |                     |          |
|                     | DYS/Southeast Region                                             | three day                      | Overnight           | 12/4     |
| N.B. — FALL RIVER — | Tuesday, July 25                                                 |                                |                     |          |
|                     | Joe Cardozo Memorial Sail/EMHA                                   | 9:00-1:00pm                    | Daysail             | 65       |
| N.B. — FALL RIVER — | Wednesday, July 26                                               |                                |                     |          |
|                     | USCG Deck Inspection, Welcome to Schooner <i>Bill of Rights</i>  |                                |                     |          |
| N.B. — FALL RIVER — | Thursday, July 27                                                |                                |                     |          |
|                     | UMASS Dartmouth Literature Class                                 | 9:30-10:30am                   | Dockside            | 25       |
| N.B. — FALL RIVER — | UMASS Dartmouth Camp Success                                     | 11:00-3:00pm                   | Daysail             | 55       |
| N.B. — FALL RIVER — | Monday, July 31                                                  |                                |                     |          |
|                     | Member Transit/New Bedford to Boston                             | all day                        | Transit             | 21       |
| N.B. — FALL RIVER — | August 1-4, 7-9                                                  |                                |                     |          |
|                     | Public Sails                                                     | 1-4, 5:30-8:30pm               | Daysails            |          |
| N.B. — FALL RIVER — | Saturday, August 5                                               |                                |                     |          |
|                     | Member Transit/Boston to Gloucester                              | 9-4pm                          | Transit             | 15       |
| N.B. — FALL RIVER — | Sunday, August 6                                                 |                                |                     |          |
|                     | Member Sail                                                      | 9-12                           | Daysail             | 30       |



|                                                       |                    |                |     |
|-------------------------------------------------------|--------------------|----------------|-----|
| Sitzundjibers/Transit Gloucester to Boston            | 1-6pm              | Transit        | 55  |
| Tuesday, August 8                                     |                    |                |     |
| Beaver Country Day School                             | 9:30-2:30          | Daysails       | 100 |
| Wednesday, August 9                                   |                    |                |     |
| Member Transit/Boston to New Bedford                  | all day            | Transit        | 10  |
| Thursday, August 10                                   |                    |                |     |
| Member Transit/New Bedford to Fall River              | all day            | Transit        | 20  |
| Friday, August 11-Sunday, August 13                   |                    |                |     |
| Fall River Celebrates                                 | three day festival |                |     |
| Sunday, August 13                                     |                    |                |     |
| Member Transit                                        | all day            | Transit        | 30  |
| Sunday, August 20-21                                  |                    |                |     |
| Public Sail/Transit New Bedford to Bridgeport         | two day            | Transit        | 8   |
| Tuesday, August 22                                    |                    |                |     |
| S. Connecticut State Univ Teambuilding                | 7-1, 2-8           | Daysails       | 120 |
| Wednesday, August 23                                  |                    |                |     |
| Public Sail/Transit Bridgeport to Marthas Vineyard    | all day            | Transit        | 10  |
| Thursday, August 24 & Friday, August 25               |                    |                |     |
| Portuguese Geneological Society                       | 5:30-9:30pm        | Daysails       | 120 |
| Saturday, August 26                                   |                    |                |     |
| Member Transit/Marthas Vineyard to New Bedford        | 11:00-3:00pm       | Transit        | 40  |
| Friday, September 1                                   |                    |                |     |
| Member Transit/New Bedford to Gloucester              | all day            | Transit        | 15  |
| Saturday, September 2-Sunday, September 3             |                    |                |     |
| Gloucester Schooner Race                              | two day events     |                |     |
| Monday, September 4                                   |                    |                |     |
| Member Transit/Gloucester to New Bedford              | all day            | Transit        | 10  |
| Sunday, September 17                                  |                    |                |     |
| Member Transit/New Bedford to Boston                  | all day            | Transit        | 10  |
| Monday, September 18                                  |                    |                |     |
| Dockside Reception, MassPort                          | eve                |                | 20  |
| Tuesday, September 19 through Wednesday, September 20 |                    |                |     |
| Cambridge Friends Academy                             | overnight          | Harbor Islands | 25  |
| Wednesday, September 20                               |                    |                |     |
| Member Transit/Boston to Provincetown                 | 12-9pm             | Transit        | 10  |
| Thursday, September 21                                |                    |                |     |
| Provincetown MS                                       | 8:30-11:30am       | Daysail        | 55  |
| Open House                                            | 2:30-4:30, 6-8pm   | reception      | 60  |
| Friday, September 22                                  |                    |                |     |
| Provincetown MS                                       | 8:30-11:30am       | Daysail        | 55  |
| Member Transit/Provincetown to New Bedford            | 12-10pm            | Transit        | 5   |

## Brief Fiscal Overview

Prior to FY 1995, in 1993 and early 1994, DEM funded capital improvements for the Schooner ERNESTINA to extensively rebuild the hull and foremast bulwarks. A new foremast was constructed and an additional certification from USCG was received. In spring of 1994 DEM provided funding to erase \$100,000 of old debt originating in 1989/90. This work set the foundation for safe operation and a versatility that enhances a public/private partnership for her support. In her one hundreth year she is healthy and building a sound organization for her support.

In her first full year of operation, Schooner Ernestina's gross budget was approximately \$313,000. The Commission raised approximately \$121,000 in non-state revenue and provided \$84,000 in services to state agencies.

## ***Program Statistics for 1996***

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### **Statistics**

|                                                           |        |
|-----------------------------------------------------------|--------|
| School Children Aboard for Programs .....                 | 3300   |
| Dockside and Underway Educational Programs .....          | 71     |
| Multiday Trips Underway .....                             | 10     |
| Teachers Served (Professional Development Programs) ..... | 300    |
| Membership .....                                          | 800    |
| Festival Events .....                                     | 10     |
| General Public Visitation .....                           | 30,000 |
| Massachusetts Ports of Call .....                         | 14     |

### **Funders**

Mass Exec Office of Environmental Affairs  
Mass. Department of Environmental  
City of New Bedford  
Mass. Department of Youth Services  
Mass. Department of Education  
Mass. Office of Travel and Tourism  
Mass. Environmental Trust  
Coastal Zone Management  
MassPort (in-kind)  
Boston Redevelopment Authority (in-kind)  
Mass Bays Program

The Island Foundation  
Boston Marine Society  
Community Foundation of Cape Cod  
Architectural Heritage Foundation  
Hildreth Stewart Chantable Foundation  
Wall Foundation  
Boston Light, Inc.

UMASS Boston  
Munson Institute w/ Mystic Seaport Museum  
Southern Connecticut State University  
UMASS-Dartmouth  
Eastern College Athletic Conference  
New Bedford Whaling Museum (in-kind)  
Kendall Whaling Museum  
Boston National Historic Park (in-kind)  
USS Constitution (in-kind)  
Marine Biological Laboratory (in-kind)  
Woods Hole Oceanographic Inst. (in-kind)

New Bedford Public Schools  
Boston Public Schools  
New Bedford Regional Voc Tech HS (in-kind)  
Provincetown Public Schools  
Falmouth Public Schools  
Sandwich Public schools  
Nantucket Public Schools  
Isaac Coffin School Trust  
Lawrence Public Schools  
Greens Farms Academy  
Cambridge Friends School  
Outdoor Explorations, Inc.  
Beaver Country Day School Summer Programs  
Martha's Vineyard Schools  
Westport High School  
Sharon Public Schools

Teledyne Rodney Metals  
New Bedford Standard Times  
NYNEX  
ComElectric  
Luzo Community Bank of New Bedford  
Ocean Spray Cranberries, Inc.  
CompassBank  
John Hancock Insurance  
Bill Black Agency, Inc.  
Parker Boat Yard  
Shipyard Quarters Marina (in-kind)  
Courageous Sailing Center (in-kind)  
Packers Marine, Inc. (in-kind)

Taunton River Watershed Connections Project  
Save the Harbor/Save the Bay

(continued )

Mass Marine Educators  
The Lloyd Center for Environmental Studies  
Coalition for Buzzards Bay  
Tisbury Waterways, Inc

Ernestina/Morrissey Historical Association  
New Bedford Area Chamber of Commerce  
WHALE, New Bedford  
Fall River Chamber of Commerce

R I Historic Preservation & Heritage Commission  
Offshore Mariners Wives Assoc., New Bedford  
Portuguese Businessmen's Assoc., Fall river  
Portuguese Genealogical Society, Martha's Vineyard

Mid Cape Lions Club  
Bourne-Sandwich Rotary  
Yarmouth-Dennis Rotary  
... various individual donors and members

## Agency Programs

### **Massachusetts Department of Education (DOE)**

"Working on the Water" curriculum development  
"Expedition to the Water Planet" curriculum development  
"Sea Connections" Summer Institute

### **Massachusetts Department of Youth Services (DYS)**

(6) 2 day overnight, underway programs

### **Massachusetts Office of Travel and Tourism (MOTT)**

New Bedford Summerfest Coastal Sail development

### **Massachusetts Environmental Trust (MET)**

"Expedition to the Water Planet" primary funding

### **Massachusetts Department of Environmental Management (DEM)**

General Operations and Capital Support

### **Massachusetts Cultural Council (MCC)** ~ through Local Cultural Council

Summerfest Educational Pageant and activities

### **MassPort** ~ sponsorship at East Boston Lobster Fest

dockage at Black Falcon Terminal

## Schooner ERNESTINA Membership

Individual and Family Membership..... 339 memberships

Representing approx 800

child and adult members

Number of Member Sail Opportunities .... 34

Volunteer Effort ..... 316 days

## Events

New Bedford Harbor Visions

*Charrette*

Earth Day at Tonnessen Park

Maritime Heritage Day

w/N B Whaling Museum

Coalition for Buzzards Bay Swim

Gloucester Schooner Race Festival

The Great New Bedford *Summerfest*

American Cancer Society Regatta

USS Constitution Turn-Around

July 4th in Boston Harbor

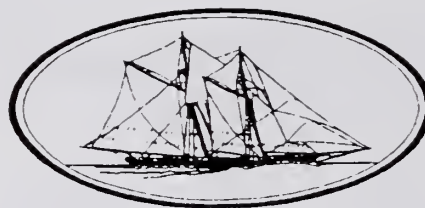
Fall River Celebrates America

Nantucket Harbor Fest

East Boston Lobster Fest



# Schooner ERNESTINA



## 1996 Program Listing

| locale            | date      | program                                                                                                                                                   | duration                 | # of participants    |          |
|-------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------|----------|
| New Bedford       | Apr 2-4   | New Bedford Schools 4th Grade Dockside Programs<br>w/NBWM, Island Foundation                                                                              | 9:30-11:00               | Dockside             | 128      |
|                   | Apr 8-12  | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-11:00               | Dockside             | 174      |
|                   | Apr 18-19 | Boy Scout Troop 52 workdays                                                                                                                               | 9:00-4:00                | Dockside             | 22       |
|                   | Apr 21    | Earth Day celebration, Tonnessen Park                                                                                                                     | 11:00                    | Dockside             | 100      |
|                   | Apr 22    | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-11:00               | Dockside             | 45       |
|                   | Apr 26    | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-11:00               | Dockside             | 45       |
|                   | Apr 27    | Maritime Heritage Festival<br>w/NBWM                                                                                                                      | 10:00-3:00               | Dockside             | 200      |
|                   | Apr 28    | Boy Scout Troop 52 workday                                                                                                                                | 9:00-4:00                | Dockside             | 12       |
|                   | Apr 29    | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-11:00               | Dockside             | 45       |
|                   | May 1-3   | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-1:30                | Dockside             | 151      |
|                   | May 6-7   | New Bedford Schools 4th Grade Dockside Programs                                                                                                           | 9:30-11:00               | Dockside             | 87       |
|                   | May 14    | Dearborn Middle School *<br>*Boston Marine Society Program at Shipyard Quarters Marina, Charlestown                                                       | 9:00-12:00               | Underway             | 57       |
|                   | May 16    | Hull Schools Programs*                                                                                                                                    | 9:00-1:30                | Dockside             | 94       |
|                   | May 17    | Hull H.S. physics classes*                                                                                                                                | Overnight                | Underway             | 24       |
| Boston            | May 18    | Boston area educators PDP workshop                                                                                                                        | 9:00-5:00                | Underway             | 19       |
|                   | May 19    | Boston Latin Academy*                                                                                                                                     | 1:00-5:00                | Underway             | 52       |
|                   | May 20    | Charlestown Elementary Schools*<br>Mass. State Science Fair Winners Sail*                                                                                 | 10:00-2:30<br>3:30-7:30  | Dockside<br>Underway | 78<br>58 |
|                   | May 21    | Chelsea H.S. *                                                                                                                                            | 9:00-1:00                | Underway             | 60       |
|                   | May 22    | Charlestown Elementary Schools*<br>Mass. State Science Fair Winners Sail*                                                                                 | 9:30-1:30<br>3:30-7:30   | Dockside<br>Underway | 89<br>48 |
|                   | May 23    | South Boston H.S. *                                                                                                                                       | 9:00-4:00                | Underway             | 54       |
|                   | May 28    | Falmouth Elementary Schools                                                                                                                               | 9:00-2:00                | Dockside             | 91       |
|                   | May 29    | Sandwich H.S.                                                                                                                                             | 8:30-2:00                | Underway             | 60       |
|                   | May 30    | Provincetown 8th Grade; Woods Hole to P-Town Sail                                                                                                         | 9:30-9:30                | Underway             | 37       |
|                   | May 31    | Student Leadership Sail, hosted by P-Town H.S. included<br>Nauset Regional H.S., Dennis-Yarmouth H.S., C.C. Voc. Tech. H.S.<br>Chatham H.S., Harwich H.S. | 9:00-1:00                | Underway             | 60       |
| Cape Cod          |           | Cape Cod Lighthouse Charter School                                                                                                                        | 1:30-7:00                | Underway             | 60       |
|                   | June 3    | Provincetown 5th and 6th Grades                                                                                                                           | 9:00-1:00                | Underway             | 60       |
|                   | June 6    | Nantucket Schools                                                                                                                                         | 10:00-12:00<br>2:00-6:00 | Dockside<br>Underway | 60<br>60 |
|                   | June 7    | Nantucket Schools                                                                                                                                         | 10:00-12:00<br>2:00-6:00 | Dockside<br>Underway | 60<br>60 |
|                   | June 8    | Nantucket educators PDP workshop<br>"Friends of Nantucket Schools" Sunset Sail fund-raiser                                                                | 10:00-12:00<br>5:30-8:30 | Dockside<br>Underway | 25<br>70 |
| Martha's Vineyard | June 10   | Martha's Vineyard Elementary Schools<br>M.V.H.S. students, faculty, community sail                                                                        | 9:00-2:00<br>4:00-7:00   | Dockside<br>Underway | 99<br>64 |
|                   | June 11   | Tisbury School transit M.V. to New Bedford                                                                                                                | 9:00-1:00                | Underway             | 28       |
|                   | June 15   | Westport H.S. Special Class transit N.B. to Boston                                                                                                        | 8:00-6:00                | Underway             | 6        |
|                   | June 17   | Wall Foundation Boston Harbor Islands program                                                                                                             | 9:00-4:00                | Underway             | 60       |
|                   | June 19   | Mass. Seaport Council Reception<br>Black Falcon Terminal, Boston                                                                                          | 5:30-7:30                | Dockside             |          |

(continued )

|             |          |        |             |        |                      |            |                                                                       |                   |                      |          |
|-------------|----------|--------|-------------|--------|----------------------|------------|-----------------------------------------------------------------------|-------------------|----------------------|----------|
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | June 20    | Mass. Division of Forests and Parks meeting                           | 10:30-1:00        | Underway             |          |
|             |          |        |             |        |                      | June 22    | New Bedford area teachers PDP workshop                                | 9:00-5:00         | Underway             |          |
|             |          |        |             |        |                      | June 28-30 | Munson Institute seminar<br>N B -Cape Cod-Nantucket-N B               | 3 day             | Underway             | 21       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | July 3     | E. Boston Lobster Festival, Pier One, East Boston                     | 3:00-10:00        | Dockside             | 400      |
|             |          |        |             |        |                      | July 4     | USS Constitution Turn Around                                          |                   |                      |          |
|             |          |        |             |        |                      | July 4-5   | Coastal Sail in Company w/tall ships Boston-N B                       | overnight         | Underway             | 24       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | July 5     | Parade of Sail, New Bedford                                           | 6:00              | Underway             | 50       |
|             |          |        |             |        |                      | July 5-7   | New Bedford Summerfest                                                | 11:00-4:00        | Dockside             | 1200     |
|             |          |        |             |        |                      | July 7     | Blessing of the Fleet, New Bedford                                    | 11:00             | Underway             | 50       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | July 17    | Lawrence Schools Harbor Islands program                               | overnight         | Underway             | 24       |
|             |          |        |             |        |                      | July 20    | Gloucester Community Computer project fund-raiser<br>w/Hard Disk Cafe | 5:30-9:30         | Underway             | 65       |
|             |          |        |             |        |                      | July 21    | Sitzundjibbers transit Gloucester-Boston                              | 1:00-6:00         | Underway             | 53       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | July 22    | Wall Foundation Boston Harbor Islands program                         | 9:00-4:00         | Underway             | 60       |
|             |          |        |             |        |                      | July 23    | Beaver Country Day Summer Programs                                    | 10:00-2:00        | Underway             | 60       |
|             |          |        |             |        |                      | July 25-26 | Mass. Dept. of Youth Services                                         | overnight         | Underway             | 16       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | July 27    | Canadian Sail<br>ERNESTINA Members/crew potluck, Tonnessen Park       | 1:00-5:00<br>5:30 | Underway<br>Dockside | 50<br>35 |
|             |          |        |             |        |                      | July 28    | Coalition for Buzzards Bay Swim, New Bedford                          | 9:30-11:00        | Underway             | -        |
|             |          |        |             |        |                      | July 29-31 | Sea Connections Summer Institute                                      | 3 day             | Underway             | 22       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Aug 5      | Wall Foundation Boston Harbor Islands program                         | 9:00-4:00         | Underway             | 60       |
|             |          |        |             |        |                      | Aug 9      | Boy Scout Troop 52 transit N B -Fall River                            | 5:00-2:00         | Underway             | 20       |
|             |          |        |             |        |                      | Aug 9-11   | Fall River Celebrates America Festival                                | 12:00-4:00        | Dockside             | 900      |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Aug 12     | Falmouth Community transit N B -Woods Hole                            | 4:00-8:00         | Underway             | 70       |
|             |          |        |             |        |                      | Aug 13     | E.C.A.C./N.C.A.A. Conference Daysail                                  | 1:00-4:00         | Underway             | 45       |
|             |          |        |             |        |                      | Aug 14-15  | Mass. Dept. of Youth Services                                         | overnight         | Underway             | 16       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Aug 17     | Parade of Sail A.C.S. Regatta, New Bedford                            | 11:00             | Underway             | -        |
|             |          |        |             |        |                      | Aug 18     | Wall Foundation Boston Harbor Islands program                         | overnight         | Underway             | 60       |
|             |          |        |             |        |                      | Aug 19-25  | Umass Boston Urban Scholars program                                   | 6 day             | Underway             | 24       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Aug 25-30  | Greens Farms Academy program                                          | 5 day             | Underway             | 26       |
|             |          |        |             |        |                      | Aug 30-31  | Gloucester Schooner Race                                              | Hurricane Eduard  |                      | -        |
|             |          |        |             |        |                      | Sept 7     | Outdoor Explorations Daysail                                          | 8:30-5:00         | Underway             | 50       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Sept 18-19 | Mass. Dept. of Youth Services                                         | overnight         | Underway             | 16       |
|             |          |        |             |        |                      | Sept 21    | Joe Cardozo Memorial Sail (2nd annual)                                | 9:00-1:00         | Underway             | 70       |
|             |          |        |             |        |                      | Sept 25-26 | Mass. Dept. of Youth Services                                         | overnight         | Underway             | 16       |
| New Bedford | Cape Cod | Boston | New Bedford | Boston | Cape Cod and Islands | Sept 28    | Community Support Thank You Sail, New Bedford                         | 11:00-3:00        | Underway             | 50       |

## ***Schooner Ernestina Commission Enabling Legislation***

The Commonwealth of Massachusetts

In the Year One Thousand Nine Hundred and Ninety-three

An Act relative to the Ernestina Commission,

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

Chapter 6 of the General Laws is hereby amended by striking out sections 182A and 182B, as appearing in the 1992 Official Edition, and inserting in place thereof the following three sections:

**Section 182A.** There shall be a commission to be known as the Schooner Ernestina Commission, to consist of nine persons to be appointed by the governor, one of whom shall be the commissioner of environmental management or his designee, one of whom shall be the director of travel and tourism or his designee, one of whom shall be the commissioner of education or his designee, one of whom shall be a resident of New Bedford, one of whom shall be a member of the Ernestina/Morrissey Historical Association, the four remaining persons shall be any person whose expertise would be an asset to the commission and the Schooner Ernestina or have particular expertise in the Cape Verdean history as it relates to said schooner, or history of said ship as the Effie M. Morrissey. Of the initial appointment, three shall be for a term of one year, three shall be for a term of two years and three shall be for a term of three years. Said commission shall annually thereafter elect from among their members a chairman and a vice chairman. The members of said commission shall serve without compensation. Said commission shall meet a minimum of four times annually and shall additionally meet as often as necessary to transact the business of the vessel. It is the responsibility of the commission to establish all policies relative to the operation of the vessel.

**Section 182B.** The Schooner Ernestina Commission is hereby authorized and empowered:

(a) to hold, administer, operate, preserve and maintain said vessel for educational or training purposes. Said vessel shall serve as the official vessel of the commonwealth and it may participate in tourism activities in cooperation with the advisory commission on vacation travel;

(b) to authorize the vessel to ply the oceans, seas, and all navigable waters and to fly the flag of the commonwealth; provided, however, that said vessel shall not be used for commercial fishing;

(c) to charge fees or tuition to students, trainees, sailing cadets or others who are carried on voyages or trips for educational or training purposes;

(d) to charge fees to passengers for excursions or tours;



(e) to develop educational programs, including exhibitions and dockside tours of the vessel and to charge and receive admission fees from the public for the provisions of such services;

(f) to retain and expend any fees, tuitions and revenues received under the provisions of clauses (c), (d) and (e). All monies retained and expended shall be reported to the secretary of the administration and finance, the department of environmental management and the house and senate committees on ways and means;

(g) to receive and expend from both municipal and federal agencies, as well as private foundations, grants to support the operations, preservation and maintenance of said vessel and to receive and accept contributions from any source of either money, property, labor, or other things of value, to be used for purposes for which said grants and contributions may be made;

(h) to hire, as needed, professional staff to assist with the operation of the vessel;

(i) to contract out, with private and not for profit organizations, the operations and maintenance of the vessel;

(j) and directed to establish fees and tuitions pursuant to clauses (c), (d), (e) and (g) at a level sufficient to ensure the continued operation, preservation and maintenance of the Schooner Ernestina. The Commission is hereby further authorized and directed to establish a business and spending plan detailing revenues of and expenditures by said commission which plan shall ensure the continued operation, preservation and maintenance of the Schooner Ernestina. Said plan shall be filed annually on or before March First, to the state auditor, the secretary of administration and finance, the department of environmental management and the house and senate committees on ways and means.

Section 182C. The Schooner Ernestina Commission shall be placed in the department of environmental management and will work jointly with said agency so that operational and managerial responsibilities authorized and empowered to the commission herein follow state policies. The state auditor is hereby authorized and directed to conduct an annual audit of the commission's books and accounts which audit shall be sent to the governor, the department of environmental management, the commissioner of the department of revenue and the house and senate committees on ways and means. Said audit shall be a public record. The home berth of said vessel shall be in the port of the city of New Bedford.

House of Representatives, January 4, 1994.

In Senate, January 4, 1994.

Approved William F. Weld, Governor, January 13, 1994, 4:28 pm.

## *New Bedford Whaling National Historical Park Authorization*

Calendar No. 599

104TH CONGRESS }  
2d Session }

SENATE

REPORT  
104-375

### NEW BEDFORD WHALING NATIONAL HISTORICAL PARK

SEPTEMBER 30, 1996.—Ordered to be printed

Mr. MURKOWSKI, from the Committee on Energy and Natural Resources, submitted the following

### REPORT

(To accompany S. 606)

The Committee on Energy and Natural Resources, to which was referred the bill (S. 608) to establish the New Bedford Whaling National Historical Park in New Bedford, Massachusetts, and for other purposes, having considered the same, reports favorably thereon with amendments and recommends that the bill, as amended, do pass.

The amendments are as follows:

On page 2, line 13, strike "and".

On page 2, strike lines 14 through 16 in their entirety.

On page 2, line 14, insert:

"(4) during the nineteenth century, over two thousand whaling voyages sailed out of New Bedford for the Arctic region of Alaska, and joined Alaska Natives from Barrow, Alaska and other areas in the Arctic region in subsistence whaling activities; and

"(5) the National Park System presently contains no sites commemorating whaling and its contribution to American history."

On page 2, line 23, strike "local" and insert "associated".

On page 5, after line 6, insert:

"(c) RELATED FACILITIES.—To ensure that the contribution of Alaska Natives to the history of whaling in the United States is fully recognized, the Secretary shall provide—(1) financial and other assistance to establish links between the New Bedford Whaling National Historical Park and the North Slope Borough Cultural Center, to

29-810



cated in Barrow, Alaska; and (2) to provide other appropriate assistance and funding for the North Slope Borough Cultural Center."

On page 7, line 22, strike "park," and insert "park, and to carry out the activities under section 3(c)."

#### PURPOSE OF THE MEASURE

The purpose of S. 608 is to establish New Bedford Whaling National Historical Park in Massachusetts in order to preserve and interpret the nineteenth century whaling industry.

#### BACKGROUND AND NEED

Interest in preserving the maritime history of New Bedford, Massachusetts began in the 1960s. New Bedford served as the center of the whaling industry during its peak from 1820 to 1860. Following the collapse of commercial whaling, the textile industry created another boom of New Bedford. By the early 1960s, economic decline had caused decay of the city's historic waterfront. A city-sponsored urban renewal program threatened the entire area with demolition. In response, the Waterfront Historic Area League of New Bedford, Inc. (WHALE) was organized to preserve the waterfront area and thereby preserve the city's whaling history. WHALE was successful in leading a comprehensive program to preserve, rehabilitate and reuse architecturally significant buildings in the waterfront area. WHALE also helped establish the New Bedford National Historic Landmark District in 1966.

In 1988, the Massachusetts Department of Environmental Management developed a Heritage State Park master plan as part of revitalization initiative, in cooperation with the city of New Bedford. The program was intended to assist cities with resource protection and economic development by creating parks in historic urban areas. Under this program, a plan for New Bedford's waterfront area was developed but never implemented, as the State ceased funding the Heritage Park program.

Since WHALE's initial investment in the Waterfront Historic District buildings, some of the most valued rehabilitated buildings are again showing the effects of deferred maintenance. Other significant buildings, bypassed in the earlier program, are in need of substantial rehabilitation.

At the request of the Massachusetts delegation, including Senators Kennedy and Kerry, Congress appropriated funds in 1990 for a National Park Service Special Resource Study to consider the feasibility of creating a national park in New Bedford. The study was completed by the National Park Service in November 1993, and recommends designation of the New Bedford National Historic Landmark District and the National Historic Landmark Schooner *Ernestina* as a national historical park, based on the agency's criteria for national significance, suitability and feasibility. Under the designation, the National Park Service would plan and implement programs at the park in cooperation with local organizations.

S. 608 would establish New Bedford Whaling National Historical Park, to be administered by the National Park Service. The bill authorizes the Secretary of the Interior to enter into cooperative

agreements with interested entities and individuals to preserve, develop, and interpret the park. Non-Federal matching requirements are outlined for cooperative agreements and construction, restoration, and rehabilitation of visitor and interpretive facilities. Real property may be acquired by the Secretary solely through donation.

S. 608 is more conservative in its authorization of appropriations than a similar bill from the last Congress (S. 1871): funds for construction, restoration and rehabilitation of visitor and interpretive facilities and signs are limited to \$2 million, and no more than \$50,000 annually may be used for interpretive and educational programs for the Schooner *Ernestina*.

#### LEGISLATIVE HISTORY

Senators Kennedy and Kerry introduced S. 608 on March 23, 1995. A hearing was held by the Subcommittee on Parks, Historic Preservation and Recreation on November 9, 1995. A similar bill, S. 1871, was introduced by Senators Kennedy and Gregg during the 103rd Congress. The Subcommittee on Public Lands, National Parks and Forests held a hearing on S. 1871 on August 2, 1994. No further action was taken. Similar legislation was introduced in the House of Representatives through H.R. 1307 (Frank, Blute) on March 23, 1996. The bill was referred to the House Resources Committee. No further action has been taken.

The legislative language of S. 608 is included in S. 1720 (Dole, Kennedy, Kerry), a bill to establish the Nicodemus National Historic Site and the New Bedford Whaling National Historic Landmark. S. 1720 was introduced on May 1, 1996, and was ordered held at the desk. S. 1720 passed the Senate on May 2, 1996 by unanimous consent.

At the business meeting on September 12, 1996, the Committee on Energy and Natural Resources ordered S. 608 favorably reported, as amended.

#### COMMITTEE RECOMMENDATION

The Committee on Energy and Natural Resources, in open business session on September 12, 1996, by a unanimous voice vote of a quorum present, recommends that the Senate pass S. 608, as amended as described herein.

#### COMMITTEE AMENDMENT

During the consideration of S. 608, the Committee adopted an amendment which would add a section to the Congressional findings stating that in the nineteenth century, over two thousand whaling voyages sailed out of New Bedford to the Arctic region of Alaska, and joined Alaska Natives from Barrow, Alaska and other areas in the Arctic region in subsistence whaling activities.

The amendment would authorize the Secretary of the Interior to provide financial and other assistance to the North Slope Borough Cultural Center in Barrow, Alaska, in order to establish links with the historical park and to ensure that the contributions of Alaska Natives to the history of whaling in the United States is fully recognized.



## SECTION BY SECTION ANALYSIS

Section 1(a), as amended, contains five Congressional findings: (1) the New Bedford National Historic Landmark District and associated historic sites, including the Schooner *Ernestina* are listed on the National Register of Historic Places; (2) New Bedford was the nineteenth century capital of the world's whaling industry; (3) New Bedford's historic resources provide opportunities for illustrating and interpreting the whaling industry's contributions to the economic, social and environmental history of the United States; (4) during the nineteenth century, whaling voyages sailed out of New Bedford for the Arctic region of Alaska, and joined Alaska natives in subsistence whaling activities; and (5) the National Park Service presently contains no sites commemorating whaling and its contributions to American history.

Section 1(b), as amended, defines the purposes of the Act as helping to preserve, protect and interpret the resources described within the Act; collaborating with the city of New Bedford and associated historical, cultural and preservation organizations; and providing opportunities for inspirational and educational benefits.

Section 2 provides definitions for terms used throughout the Act. Section 3(a) establishes New Bedford Whaling National Historical Park as a unit of the National Park System.

Section 3(b)(1) defines the boundaries of the park as described on a map.

Section 3(b)(2) authorizes the Secretary of the Interior (Secretary) to assist with the preservation and interpretation of specific areas in New Bedford that are not included within the boundaries of the park.

Section 3(c) directs the Secretary to provide financial and other assistance in order to establish links between the Park and the North Slope Borough Cultural Center in Barrow, Alaska, and to provide other appropriate assistance and funding for the North Slope Borough Cultural Center.

Section 4(a) directs that the Park will be administered in accordance with provisions of law applicable to units of the National Park System.

Section 4(b)(1) authorizes the Secretary to enter into cooperative agreements in order to provide for the preservation, development and use of the Park.

Section 4(b)(2) states that any payment made by the Secretary pursuant to a cooperative agreement shall be subject to an agreement that conversion, use or disposal of the project assisted by the agreement contrary to the purposes of the Act shall result in a right of the United States to reimbursement.

Section 4(c)(1) directs that Federal funds be matched by non-Federal funds, \$4 non-Federal to \$1 Federal for cooperative agreements, and a 50-50 match for construction, restoration and rehabilitation.

Section 4(c)(2) authorizes the Secretary to accept and utilize contributions from non-Federal sources, and states that any donation of property, services, or goods from a non-Federal source may be considered in meeting the requirement for non-Federal matching funds.

Section 4(d) directs that the Secretary may only acquire lands and interests within the park by donation.

Section 4(e) authorizes the Secretary to accept donated funds, property, and services in order to carry out the Act.

Section 5 directs the Secretary to complete a general management plan for the park and submit the plan to the appropriate Congressional Committees within two years of enactment.

Section 6 authorizes appropriated sums as necessary, with the exceptions that not more than 2 million dollars may be appropriated for construction, restoration and rehabilitation of visitor and interpretive facilities; none of the appropriated funds may be used for the operation and maintenance of the schooner *Ernestina*; and not more than \$50,000 annually of Federal funds may be used for interpretive and educational programs for the schooner *Ernestina*.

## COST AND BUDGETARY CONSIDERATIONS

The following estimate of the cost of this measure has been provided by the Congressional Budget Office:

U.S. CONGRESS,  
CONGRESSIONAL BUDGET OFFICE,  
Washington, DC, September 20, 1996.

Hon. FRANK H. MURKOWSKI,

Chairman, Committee on Energy and Natural Resources,  
U.S. Senate, Washington, DC.

DEAR MR. CHAIRMAN: The Congressional Budget Office has reviewed S. 608, a bill to establish the New Bedford Whaling National Historical Park in New Bedford, Massachusetts, and for other purposes, as reported by the Senate Committee on Energy and Natural Resources on September 16, 1996. Assuming appropriation of the necessary amounts, CBO estimates that the federal government would spend about \$11 million to implement this bill over the next five years, including \$1.5 million for planning and development and \$9.5 million for park operations and assistance to nonprofit organizations and other nonfederal parties. Additional one-time costs of \$1.2 million and ongoing expenses of about \$1 million a year would be incurred after 2001. S. 608 would not affect direct spending or receipts; therefore, pay-as-you-go procedures would not apply.

S. 608 would establish the New Bedford Whaling National Historical Park. The park's boundaries would encompass four areas in or near the New Bedford National Historic Landmark District. The National Park Service (NPS) would be permitted to acquire property within the park boundaries only by donation. Section 4 of the bill would authorize the NPS to: (1) enter into cooperative agreements with interested parties for preservation and interpretive purposes within the park or on five additional sites identified by section 3, and (2) provide technical and financial assistance to the North Slope Borough Cultural Center in Barrow, Alaska for the purpose of interpreting the contributions to the history of whaling made by Alaska natives. Section 5 would require the NPS to prepare a general management plan for the park within two years.



Section 6 would authorize the appropriation of whatever sums are necessary for annual activities such as park operation and maintenance and programs carried out under cooperative agreements, except that no appropriations could be used for operating or maintaining one privately owned park area (the Schooner *Ernestina*) and federal funding of interpretive programs aboard the vessel would be limited to \$50,000 annually. Finally, this section would limit appropriations for the development of interpretive and visitor facilities to \$2 million.

CBO estimates that the NPS would spend about \$0.7 million over the next three years to prepare a management plan for the park and complete other needed studies and reports on park resources. Over the following several years, the agency would spend \$2 million to develop visitor facilities, which could include a main orientation center (and related exhibits) as well as a number of smaller interpretive sites. Other startup costs would include spending for minor restoration projects at the five New Bedford sites eligible for federal assistance under section 3. Such activities, along with local interpretive and educational projects and assistance to the Schooner *Ernestina* and the North Slope Borough Cultural Center, would be funded through cooperative agreements under section 4. CBO estimates that the costs of cooperative agreements would be about \$0.4 million in 1997, rising to about \$1.1 million annually by 1999. Annual costs to operate and maintain the park would be about \$0.3 million in 1997 and would rise to \$1.8 million by 2001.

The above estimates are based on information provided by the NPS and assume appropriation of the entire amounts authorized for development purposes or estimated to be necessary for cooperative agreements and park operations.

The bill contains no private-sector or intergovernmental mandates as defined in the Unfunded Mandates Reform Act of 1995 (Public Law 104-4) and would impose no costs on state, local, or tribal governments. The Secretary of the Interior would make some of the funds that are authorized by this bill available to parties—including state and local governments—that enter into cooperative agreements with the Secretary for operating, developing, and preserving resources within the park. Generally, the Secretary would match one dollar of federal funds for each four dollars of nonfederal funds; however, the matching rate would be one-to-one for constructing, restoring, and rehabilitating facilities.

If you wish further details on this estimate, we will be pleased to provide them. The CBO staff contacts are Deborah Reis (for federal costs) and John Patterson (for the impact on state and local governments).

Sincerely,

JAMES L. BLUM

(For June E. O'Neill, Director).

#### REGULATORY IMPACT EVALUATION

In compliance with paragraph 11(b) of rule XXVI of the Standing Rules of the Senate, the Committee makes the following evaluation of the regulatory impact which would be incurred in carrying out S. 608. The bill is not a regulatory measure in the sense of impos-

ing Government established standards or significant economic responsibilities on private individuals and businesses.

No personal information would be collected in administering the program. Therefore, there would be no impact on personal privacy. Little, if any, additional paperwork would result from the enactment of S. 608, as ordered reported.

#### EXECUTIVE COMMUNICATIONS

On September 13, the Committee on Energy and Natural Resources requested legislative reports from the Department of the Interior and the Office of Management and Budget setting forth Executive agency recommendations on S. 608. These reports had not been received at the time the report on S. 608 was filed. When these reports become available, the Chairman will request that they be printed in the Congressional Record for the advice of the Senate. The testimony provided by the Department of the Interior at the Subcommittee hearing follows:

#### TESTIMONY OF DENIS P. GALVIN, ASSOCIATE DIRECTOR FOR PROFESSIONAL SERVICES, NATIONAL PARK SERVICE, DEPARTMENT OF THE INTERIOR

Mr. Chairman, I am pleased to be here to testify on a bill that would create the New Bedford Whaling National Historical Park in New Bedford, Massachusetts.

We support the enactment of S. 608. We are pleased to note that recommendations we made regarding similar legislation introduced in the 103rd Congress have been incorporated into the current legislation. We also should note that the proposed new unit has been carefully studied and found to be suitable for addition to the National Park System.

This legislation would establish a new unit of the National Park System in New Bedford, Massachusetts, the New Bedford Whaling National Historical Park. The proposed park would interpret the nationally significant story of nineteenth century whaling and its associated social, economic and environmental themes. The historical park would assure the preservation, protection and interpretation of the resources associated with the whaling era in New Bedford including its architecture, setting, associated archival and museum collections, and the Schooner *Ernestina*.

The legislation calls for collaboration among the National Park Service, the City of New Bedford and local historical, cultural, and preservation organizations to further the purposes of the park. The Secretary of the Interior is authorized to enter into cooperative agreements with interested entities and individuals to provide for the preservation, interpretation, development, and use of the park. The legislation requires that federal funds be matched by non federal funds \$4 non-federal to \$1 federal for cooperative agreements; \$1 to \$1 for construction, restoration and rehabilitation of visitor and interpretive facilities.

In 1990, the Congress directed the NPS to undertake a special resource study and to consider the feasibility of creating a national park in New Bedford. On June 10, 1994, we presented to the Congress the "New Bedford Special Resource Study," a cooperative effort by the National Park Service and Waterfront Historic Area League (WHALE) of New Bedford. Specifically, the study found that "the New Bedford National Historic Landmark District and the adjacent sites represent an outstanding example of buildings, sites, and streets associated with the whaling industry, a subtheme not fully represented in the National Park System. The District and historic sites also have exceptional value in representing the theme of maritime history." The study's assessment of national significance concluded that "taken together, the National Historic Landmark District, the National Landmark *Ernestina*, and the other historic resources present at New Bedford clearly meet the criteria for national significance. If the story of whaling, with the human themes that are rightfully embraced within it, is to be preserved and presented anywhere, New Bedford is the logical and most suitable location to do so."

The area reviewed in the "New Bedford Special Resource Study" comprises approximately 13 city blocks reaching from the waterfront westward into New Bedford's downtown. The resources located in that area represent a broad array of business, residential, and institutional structures that convey the importance, cultural diversity, and financial power of the whaling era. These structures continue to serve the needs of the waterfront community and the city's broader population.

There is significant public support for the establishment of a National Historical Park in New Bedford. We also understand that there is strong commitment in the city, and among local historical and preservation organizations to work with the National Park Service to protect the resources associated with the whaling heritage of New Bedford. The presence of strong local institutions and intense public interest contribute to the strength of the partnership in New Bedford. Local partnerships can support the National Park Service in educational programs, production of informational materials, coordination of volunteers, and other activities which will enhance and expand the Service's efforts.

Mr. Chairman, we consider the New Bedford Whaling National Historical Park to be a valuable addition to the National Park System. Based on studies of the site and other research, we have concluded that New Bedford is the location in the United States possessing a concentration of resources to best interpret the whaling era. The proposed New Bedford Whaling National Historical Park is of sufficient size and configuration to accommodate public use. The partnership and cost-sharing requirements outlined in the legislation are important factors for ensuring local financial responsibility and investment. If S. 608 is enacted,

funding for the proposed project would be contingent upon Federal budgetary constraints and the Administration's funding priorities.

I appreciate the opportunity to provide the Administration's views on this bill. I would be happy to answer any questions you may have.

#### CHANGES IN EXISTING LAW

In compliance with paragraph 12 of rule XXVI of the Standing Rules of the Senate, the Committee notes that no changes in existing law are made by the bill S. 608 as reported.

( )



US Coast Guard Certificate of Inspection

OMB No. 2115-0517



UNITED STATES OF AMERICA  
DEPARTMENT OF TRANSPORTATION  
UNITED STATES COAST GUARD

CERTIFICATION DATE: 28JUN96

EXPIRATION DATE: 28JUN99

# Certificate of Inspection

|                                                                                                         |                            |                                                                                                            |                              |     |                  |
|---------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------|------------------------------|-----|------------------|
| VESSEL NAME<br>ERNESTINA                                                                                | OFFICIAL NUMBER<br>D136423 | CALL SIGN<br>NTK7000                                                                                       | SERVICE<br>SCHOOL SHIP       |     |                  |
| HOME PORT<br>NATL VESSEL DOC CTR                                                                        | HULL MATERIAL<br>WOOD      | HORSEPOWER<br>350                                                                                          | PROPULSION<br>AUXILIARY SAIL |     |                  |
| PLACE BUILT<br>FERRY, MA                                                                                | DATE BUILT<br>01JAN94      | GROSS TONS<br>98                                                                                           | NET TONS<br>66               | DWT | LENGTH<br>93.200 |
| OWNER<br>THE SCHOONER ERNESTINA COMMISSION<br>STATE PIER<br>P.O. BOX 2010<br>NEW BEDFORD, MA 02741-2010 |                            | OPERATOR<br>THE SCHOONER ERNESTINA COMMISSION<br>STATE PIER<br>P.O. BOX 2010<br>NEW BEDFORD, MA 02741-2010 |                              |     |                  |

THIS VESSEL MUST BE MANNED WITH THE FOLLOWING LICENSED AND UNLICENSED PERSONNEL, INCLUDED IN WHICH THERE MUST BE 4 CERTIFICATED LIFEBOATMEN AND 0 CERTIFICATED TANKERMAN.

|           |                                   |                 |                    |                      |
|-----------|-----------------------------------|-----------------|--------------------|----------------------|
| MASTER    | MASTER & 1ST CLASS PILOT <u>2</u> | ABLE SEAMEN     | CHIEF ENGINEER     | FIREMEN-WATERTENDERS |
| CHIEFMATE | CLASS PILOT                       | ORDINARY SEAMEN | 1ST ASST. ENGINEER | OILERS               |
| 2ND MATE  | RADIO OFFICER(S)                  | DECKHANDS       | 2ND ASST. ENGINEER |                      |
| LIC       | MATES                             | OPERATOR(S)     | ENG'RS.            |                      |

IN ADDITION, THIS VESSEL MAY CARRY 0 PASSENGERS, 0 OTHER PERSONS IN CREW, 0 PERSONS IN ADDITION TO CREW, AND 4 INSTRUCTOR/STUDENT COMPLEMENT--THIRTY SEVEN (37) TOTAL PERSONS ALLOWED: 42

ROUTE PERMITTED AND CONDITIONS OF OPERATION:

**\*\*EXPOSED WATERS\*\***

THE MASTER AND MATES LICENSES SHALL HAVE AN AUXILIARY SAIL ENDORSEMENT.

**\*\*PARTIALLY PROTECTED WATERS\*\***

WHEN THE VESSEL OPERATES WITHIN TWENTY (20) MILES OF A HARBOR OF SAFE REFUGE THE FOLLOWING CONDITIONS SHALL APPLY:

INSTRUCTOR/STUDENT COMPLEMENT: NINETY-FIVE (95)  
THE TOTAL PERSONS ALLOWED: ONE HUNDRED (100)

\*\*\*\*\*

THIS VESSEL IS OPERATING UNDER DUAL CERTIFICATION. WHEN OPERATING AS A SMALL PASSENGER VESSEL UNDER SUBCHAPTER "T", THE FOLLOWING CONDITIONS APPLY:

\*\*\* SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION \*\*\*

WITH THIS INSPECTION HAVING BEEN COMPLETED AT NEW BEDFORD, MA  
CERTIFIED BY THE OFFICER IN CHARGE, MARINE INSPECTION, PROVIDENCE, RHODE ISLAND  
WITH THE APPLICABLE VESSEL INSPECTION LAWS AND THE RULES AND REGULATIONS PRESCRIBED THEREUNDER.

ON 28JUN96, THIS VESSEL IS  
TO BE IN ALL RESPECTS IN CONFORMITY

| PERIODIC REINSPECTIONS |      |           | THIS CERTIFICATE ISSUED BY:<br><br>P. A. TURLO, CAPTAIN, USCG<br><br>OFFICER IN CHARGE, MARINE INSPECTION<br>PROVIDENCE, RHODE ISLAND<br><br>INSPECTION ZONE |
|------------------------|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE                   | ZONE | SIGNATURE |                                                                                                                                                              |
|                        |      |           |                                                                                                                                                              |
|                        |      |           |                                                                                                                                                              |
|                        |      |           |                                                                                                                                                              |



# Certificate of Inspection

ARVESTINA

PAGE 2

CERTIFICATION DATE: 26JUN96

--- ROUTE PERMITTED AND CONDITIONS OF OPERATION, CONTINUED ---

\*\*\*LIMITED COASTWISE\*\*\*

NOT MORE THAN TWENTY (20) MILES FROM A HARBOR OF SAFE REFUGE BETWEEN  
THE RIVER, NEW JERSEY AND EASTPORT, MAINE UNDER REASONABLE OPERATING  
CONDITIONS.

WHEN THE VESSEL OPERATES NOT MORE THAN TWELVE (12) HOURS IN A TWENTY-FOUR  
(24) HOUR PERIOD THE VESSEL MAY BE OPERATED WITH: ONE (1) MASTER: SEVEN (7)  
DECK HANDS AND NOT MORE THAN NINETY TWO (92) PASSENGERS. THREE OF THE DECK  
HANDS SHALL HAVE SUBSTANTIAL KNOWLEDGE IN THE OPERATION OF AUXILIARY SAIL  
VESSELS.

WHEN THE VESSEL IS AWAY FROM A SHORE SIDE DOCK, OR PASSENGERS ARE ON BOARD  
IF HAVE ACCESS TO THE VESSEL FOR A PERIOD EXCEEDING TWELVE (12) HOURS IN  
A TWENTY-FOUR (24) HOUR PERIOD, THE VESSEL MAY BE OPERATED WITH ONE (1)  
MASTER, ONE (1) LICENSED MATE AND EIGHT (8) DECKHANDS, AND NOT MORE THAN  
THIRTY (30) PASSENGERS. FOUR OF THE DECKHANDS SHALL HAVE SUBSTANTIAL  
KNOWLEDGE IN THE OPERATION OF AUXILIARY SAIL VESSELS.

AT ALL TIMES DURING WHICH BUNKS IN PASSENGER AREAS LOCATED BELOW DECKS ARE  
OCCUPIED, THE MASTER SHALL DESIGNATE ONE OF THE VESSEL'S DECKHANDS AS A  
WATCH PATROLMAN. THE WATCH PATROLMAN SHALL BE STATIONED IN THE VICINITY OF THE  
BUNK AREAS TO GUARD AGAINST AND GIVE THE ALARM IN CASE OF FIRE OR OTHER  
DANGER.

THE SAILS WHICH MAY BE SET SHALL BE LIMITED TO THE JIB, JUMBO, FORESAIL AND  
MAINSAIL AS SHOWN ON THE APPROVED SAIL PLAN BEARING THE U.S. COAST GUARD  
APPROVAL STAMP DATED 2 SEPTEMBER 1989.

A TYPE I CHILD LIFE PRESERVER MUST BE PROVIDED FOR EACH CHILD ON BOARD  
UNDER 90 POUNDS.

WHEN OPERATING MORE THAN ONE MILE FROM LAND NORTH OF LATITUDE 41 DEGREES,  
45 MINUTES BETWEEN 1 NOVEMBER AND 1 APRIL, ONE HUNDRED PERCENT PRIMARY  
LIFESAVING EQUIPMENT IS REQUIRED.

-EXAM TYPE-  
DRYDOCK

--- HULL EXAMS ---

-NEXT EXAM-  
30NOV96

-LAST EXAM-  
12MAY95

-PRIOR EXAM-  
09AUG93

--- STABILITY ---

LETTER

APPROVAL DATE/ 11AUG94

OFFICE/ GMSC

\*\*\* SEE NEXT PAGE PLEASE \*\*\*



# Certificate of Inspection

FRANSTINA

PAGE 3

CERTIFICATION DATE: 28JUN96

## --- INSPECTION STATUS ---

### \*LIFESAVING\*

| LIFEBOAT/RAFT<br>IDENTIFICATION | SERVICED/<br>REFURBISHED | WEIGHT<br>TEST | FALLS<br>RENEWED | FALLS<br>END/END |
|---------------------------------|--------------------------|----------------|------------------|------------------|
| 01/7045                         | 27JUN96                  |                |                  |                  |
| 02/7046                         | 27JUN96                  |                |                  |                  |
| 03/7047                         | 27JUN96                  |                |                  |                  |
| 04/7047                         | 27JUN96                  |                |                  |                  |

## --- LIFESAVING EQUIPMENT ---

### NUMBER PERSONS

### REQUIRED

|                          |     |                            |     |
|--------------------------|-----|----------------------------|-----|
| TOTAL EQUIPMENT FOR      | 100 | LIFE PRESERVERS (ADULT)... | 100 |
| LIFEBOATS (TOTAL).....   |     | LIFE PRESERVERS (CHILD)... | 10  |
| LIFEBOATS (PORT)*.....   |     | RING BUOYS (TOTAL).....    | 3   |
| LIFEBOATS (STARBD)*....  |     | WITH LIGHTS*.....          | 1   |
| MOTOR LIFEBOATS*.....    |     | WITH LINE ATTACHED*....    | 1   |
| LIFEBOATS W/RADIO*....   |     | OTHER*.....                | 1   |
| RESCUE BOATS/PLATFORMS.  | 1   | IMMERSION SUITS.....       | 42  |
| INFLATABLE RAFTS.....    | 4   | PORTABLE LIFEBOAT RADIOS.  |     |
| LIFE BUOATS/BUOYANT APP. |     | EQUIPPED WITH EPIRB*....   | YES |
| WORKBOATS (NOT REQUIRED) |     | (* INCLUDED IN TOTALS)     |     |

## --- FIRE FIGHTING EQUIPMENT ---

|                    |     |                      |   |                       |   |
|--------------------|-----|----------------------|---|-----------------------|---|
| TOTAL HOSE LENGTH/ | 150 | NUMBER OF FIRE AXES/ | 2 | NUMBER OF FIRE PUMPS/ | 2 |
|--------------------|-----|----------------------|---|-----------------------|---|

### \*FIXED EXTINGUISHING SYSTEMS\*

| SPACE PROTECTED          | AGENT    | CAPACITY |
|--------------------------|----------|----------|
| ENGINE ROOM & FUEL VOIDS | CO2      | 100      |
| GALLEY STOVE             | DRY CHEM | 25       |
| LAZARETTE                | HALON    | 20       |

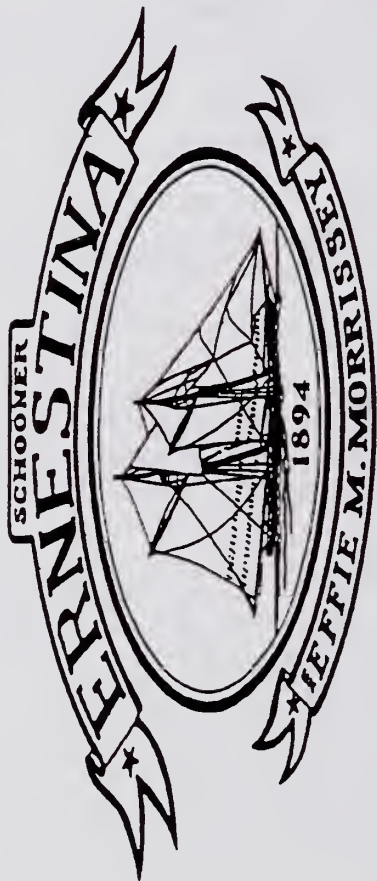
### \*FIRE EXTINGUISHERS - HAND PORTABLE AND SEMI-PORTABLE\*

|      |   |     |     |      |       |
|------|---|-----|-----|------|-------|
| A-II | 1 | B-I | 8   | B-II | B-III |
| B-IV |   | B-V | C-I | C-II |       |

\*\*\* END \*\*\*



## Schooner Ernestina Fact Sheet



More than one hundred years old, the Schooner Ernestina now sails as a school ship for the Commonwealth of Massachusetts' Department of Environmental Management. A living museum and cultural ambassador, Ernestina continues to make history through educational programs celebrating human diversity and creativity.

### HISTORY

- 1894 Schooner Effie M. Morrissey is built in Essex, MA.
- 1904 Morrissey begins fishing out of Digby, Nova Scotia.
- 1914 Morrissey serves as a coastal packet along the coasts of Nova Scotia, Newfoundland, and Labrador.
- 1926 Morrissey, under the command of Captain. Bob Bartlett, sets off on the first of twenty Arctic exploration voyages. She sails within 600 miles of the north pole.
- 1941 Morrissey serves as a U.S. Navy survey and supply ship in the Arctic.
- 1948 Captain. Henrique Mendes renames the schooner Ernestina, and the ship begins 25 years in Cape Verde packet trade.
- 1982 Ernestina sails once again to New England, a gift from the Republic of Cape Verde to the people of the United States.
- 1986 Ernestina begins her fourth life as a Sailing School Vessel, after becoming a National Historic Landmark.

### STATISTICS

- Length Overall: 156 ft.
- Length at Waterline: 93 ft.
- Beam: 24 ft. 5 in.
- Draft: 13 ft.
- Designer: George M. McClain
- Builder: James & Tarr Shipyard
- Gross Tonnage: 98 tons
- Displacement: 240 tons
- Onboard Educational Staff: 12
- Social & Civic Events: up to 80 people
- Educational Day Programs: up to 65 people
- Overnight Programs: up to 24 people
- U.S. Coast Guard Certificate: Subchapters T & R

Of some seven thousand fishing schooners built in Essex, the Ernestina sails proudly as one of six surviving vessels. She now serves communities from Mt. Hope Bay to Cape Ann.



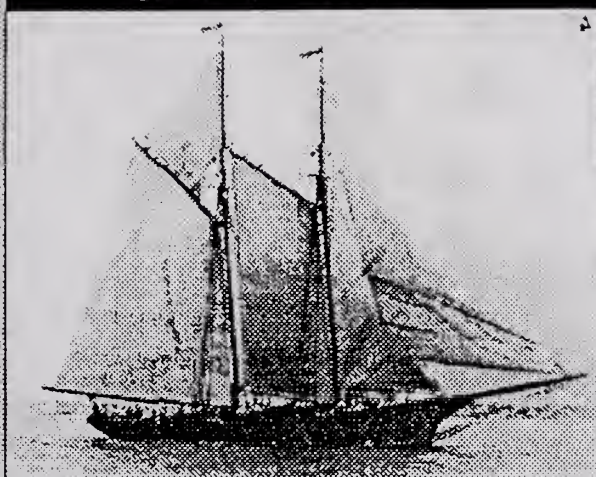
## Seven Panel Interpretative Display

# MASSACHUSETTS

A Century of Voyages ~

## An Expedition on the Waters of Planet Earth

Launched as the EFFIE M. MORRISSEY



In 1894, Massachusetts, February, 1894, the schooner Ernestina, launched as the Effie M. Morrissey, was used to deliver cargo along the coast of New England, Nova Scotia and Newfoundland until 1926.



Capt. Robert "Bob" Bartlett, Arctic Explorer



He is remembered from 1904 until 1914, when he was killed while exploring the Arctic. He was the first to reach the North Pole. He was the first to reach the North Pole. He was the first to reach the North Pole.



Capt. Henrique Mendes, Cape Verdean Master Mariner



He is remembered from 1917 until 1945, when he was killed while exploring the Cape Verde Islands. He was the first to reach the Cape Verde Islands. He was the first to reach the Cape Verde Islands.

### ERNESTINA - Proud Symbol of Cape Verdean-American Heritage

and Henrique Mendes, Master Mariner, made 24 miles of voyages up (1917-1945) in all passengers and cargo in the Cape Verde Islands by southeastern New England. Mendes was killed in an accident and killed in 1945.

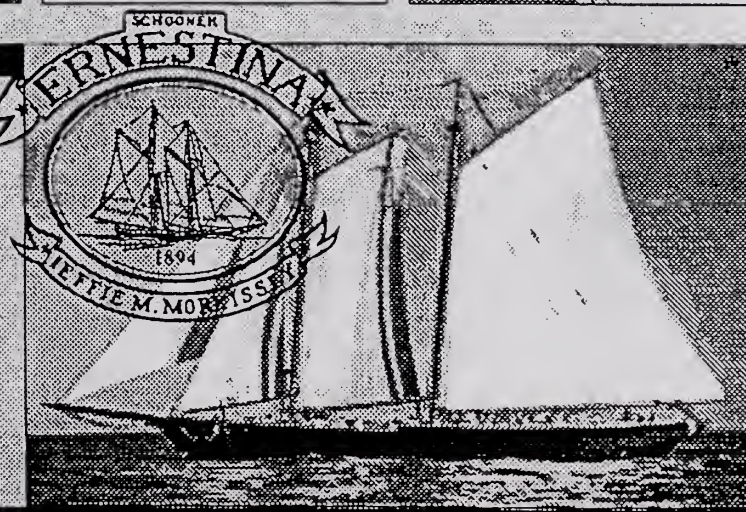


### Serving the people of Massachusetts

and the region, ERNESTINA connects us to our shared maritime history, helps us to explore our world and expands awareness and understanding. Sailing today's New England coast, Schooner ERNESTINA continues to work, explore and discover, continuing her expedition on the waters of Planet Earth.

Massachusetts Schooner ERNESTINA Commission, appointed by the Governor of the Commonwealth, oversees operation, maintenance and programming from within the Mass. Dept. of Environmental Management. Schooner ERNESTINA relies on additional support from foundations, corporations and private contributions which are tax deductible.

Massachusetts





# MASSACHUSETTS

A Voyage of Education -

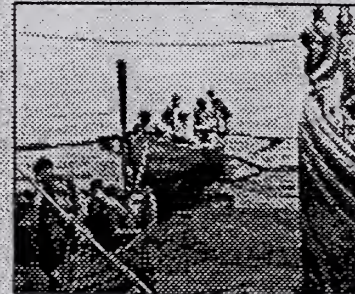
## An Expedition of Discovery

**Schooner ERNESTINA - an educational and cultural resource**

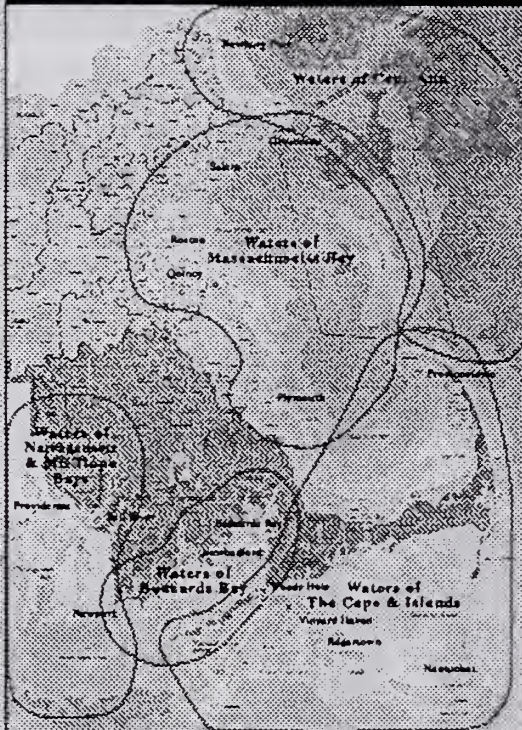


... that links us to the past, expands our present awareness and inspires our plans and visions for the future

ERNESTINA offers the thrill of sailing aboard a fully restored, New England fishing schooner, where every hand is needed to haul up sail; where cooperation and teamwork are essential.



**Schooner ERNESTINA's many ports of call**



Schooner ERNESTINA becomes a unique and energizing place to meet and learn in every port of call. Hands-on educational experiences draw on community culture, regional history and current issues for locally-focused program offerings.

Current ERNESTINA ports of call: New Bedford & Buzzards Bay, Boston & Massachusetts Bay, Cape Cod & Islands, Chatham & Cape Ann, Fall River & Mt. Hope Bay.

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ERNESTINA is a laboratory on the water for hands-on, inquiry-based learning and learning. School groups of all ages use ERNESTINA as a mobile platform of exploration, discovery and research.



A learning place for Massachusetts educators providing in-service workshops, PALMS/WF teacher enhancement programs and Mass. Dept. of Education recent (2000) PDF workshops. ERNESTINA helps educators connect the actual environment to classroom activities.



ERNESTINA offers a variety of youth programs including science and history learning, team-building activities, leadership to youth and more for youth of all ages.



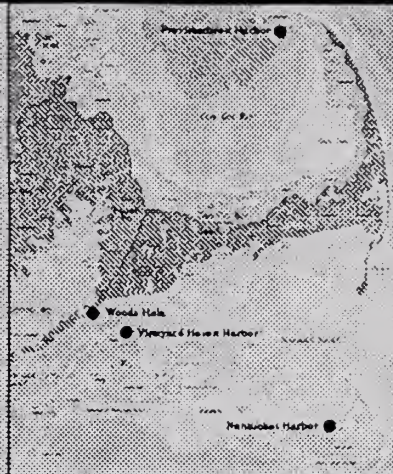
# MASSACHUSETTS

An Expedition to -

## Cape Cod, Martha's Vineyard and Nantucket

ERNESTINA brings dockside and underway educational programs to ports and aquatic environments throughout Massachusetts

- Cape Cod, Martha's Vineyard and Nantucket offer unique opportunities to study our coastal environment.



### Beyond the Cape and islands

- The sea is linked to Massachusetts Bay and the Gulf of Maine, to Buzzards Bay and Long Is. Sound. ERNESTINA also explores the area. Her voyages of discovery build an understanding of the linkage between these bodies of water, between earth and coast and, most importantly, between the impact of our actions and the demand for our natural resources.

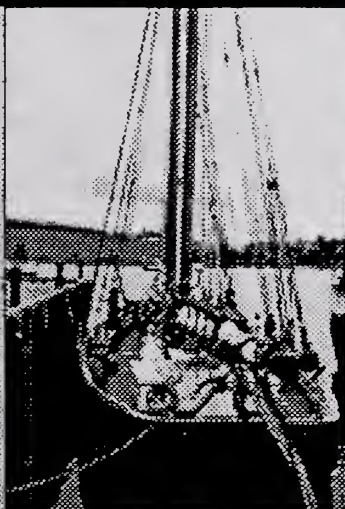
### The Cape, Martha's Vineyard and Nantucket

- where weather, water, marine resources and activities of human habitation have made the powerful interactions. ERNESTINA acts as these habitats, actual case, life and sound, giving students an on the water perspective for their investigations and discoveries.

### Local actions and regional impact



- People love the shoreline, but water quality problems are often created by threatening populations using finite resources. Fresh water, used for drinking or disposal of wastes, is one of the most critical resources.



### Observing the human-built environment

- From on board gives a new perspective of commerce, industry and housing and helps develop an enhanced appreciation of the interactions between people, land and water.



### ERNESTINA's voyages study changes in the aquatic world



- observing fish, shellfish, plankton and land life as indicators of environmental quality. These and more are used for sampling, monitoring trends and techniques used by private, state and federal agencies.

### Water is the connection



- between the living and non-living worlds, between life in the sea and life on shore. ERNESTINA's voyages lead to a growing understanding of these interconnected systems. Students learn to know that there is a link, individually and collectively, in protecting the aquatic world.

**Schooner ERNESTINA links resources and action. Ask ERNESTINA staff and members how you can get involved in your local area.**



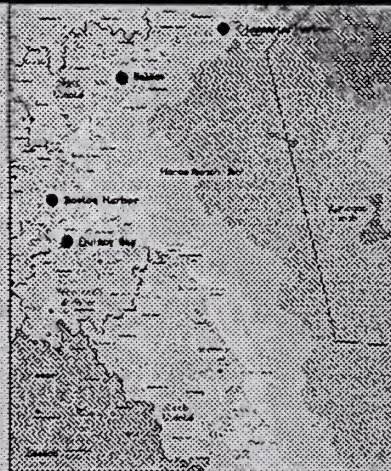
# MASSACHUSETTS

An Expedition to -

## Boston Harbor and Massachusetts Bay

ERNESTINA brings deckside and underway educational programs to ports and aquatic environments throughout Massachusetts

- Her voyages help foster awareness and stewardship for Bay State citizens of all ages. Schooner ERNESTINA sails on expeditions of investigation to offer firsthand understanding of the changes in Boston Harbor, Massachusetts Bay and adjoining bodies of water.



### Beyond Boston

- The harbor is linked to the larger Massachusetts Bay and the Gulf of Maine by the Cape Cod Canal. ERNESTINA also explores these waters, from Cape Ann to Cape Cod and the islands, from Buzzards Bay and Fall River and Nantucket Bay.

### Boston Harbor



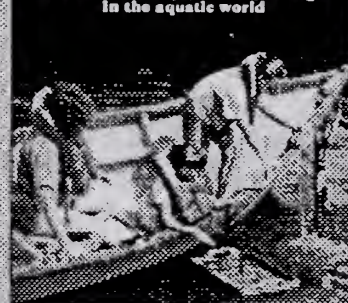
- The harbor area, with its islands, waterfront and surrounding Harbor Islands, is a study of contrasts. It is also a prime example of how the combined effects of individual citizens, private industry and governmental agencies can lead to a cleaner, safer harbor.

### Turning tide of pollution



- Boston Harbor, for over three centuries a dumping ground for a steadily increasing human population, was a disaster for marine mammals, fish and shellfish resources. These natural populations are now returning to health due to increased public awareness and clean-up efforts.

### ERNESTINA's voyages study changes in the aquatic world



- Observing fish, shellfish, plankton and bird life and sources of environmental quality. Traps and nets are used for sampling, monitoring methods and techniques used by public, state and federal agencies.

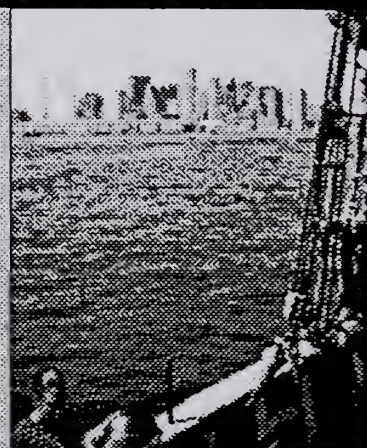
### Water is the connection



- Just over the bridge and near living worlds, but even fish in the sea and life on shore. ERNESTINA activities lead to a growing understanding of these and other worlds. Students also discover that they have a role, individually and collectively, in preserving the aquatic world.

### Observing the human-built environment

- From on board ERNESTINA, guests learn the importance of commerce, industry and housing and help develop an informed appreciation of the connections between people, land and water.



**Schooner ERNESTINA links resources and action. Ask ERNESTINA staff and members how you can get involved in your local area.**



# MASSACHUSETTS

An Expedition to -

## Gloucester and Cape Ann

ERNESTINA brings dockside and underway educational programs to ports and aquatic environments throughout Massachusetts

- Gloucester and Cape Ann provide excellent settings to study the convergence of nature and society, building awareness and stewardship among Bay State citizens of all ages.



Cape Ann: a region of contrasts



- pristine location, rocky shores, unspoiled, undisturbed nature, all a short drive from major development, high sea recreation areas and bustling, working harbors. ERNESTINA sails from Gloucester on expeditions of inquiry and discovery.

Water is the connection

- between the land and non-land worlds, between life in the sea and life on shore. ERNESTINA's programs lead to a growing understanding of these two environments. Students learn to respect the sea, its resources, its beauty, its individuality and ultimately, its power.



Beyond Cape Ann

- This area, aside from the Gulf of Maine and Massachusetts Bay. The bay links Cape Ann to the Atlantic Ocean, the North Atlantic and Cape Cod. ERNESTINA also explores these areas. Her voyages of discovery help to build an understanding of the bridge between these bodies of water, between the land and sea, and between the world of our citizens and the world of the sea.

Gloucester and ERNESTINA



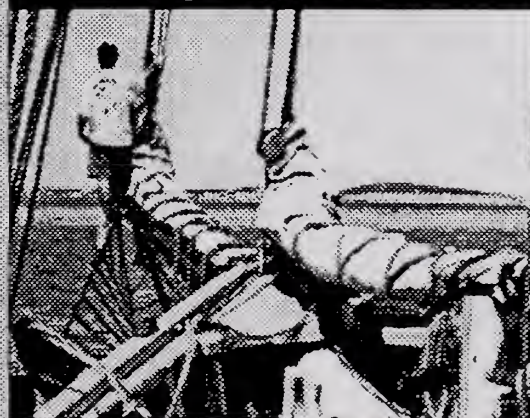
- City and ship have much in common. Both have been the Golden Age of the Yankee. Fishing boats come and go. One of the schooner's best and most famous, ERNESTINA was a "highliner" of the Gloucester fleet in the 1920s.

ERNESTINA's voyages study changes in the aquatic world



- observing fish, seabirds, plankton and bird life as indicators of environmental quality. Types and sizes are used for monitoring, measuring, and determining the health of the aquatic world.

Observing the human-built environment



- From on board ERNESTINA, a new perspective of commerce, industry and living and helps develop an informed awareness of the connections between people, land and water.

**Schooner ERNESTINA links resources and action. Ask ERNESTINA staff and members how you can get involved in your local area.**

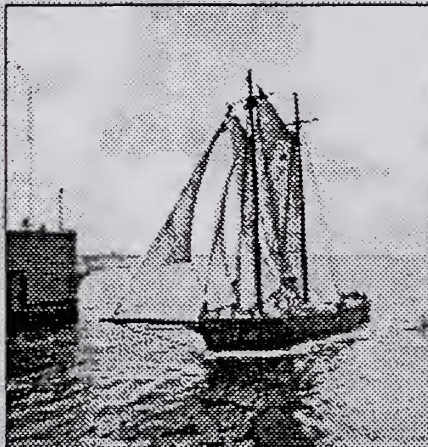


# MASSACHUSETTS

## An Expedition to- New Bedford & Buzzards Bay

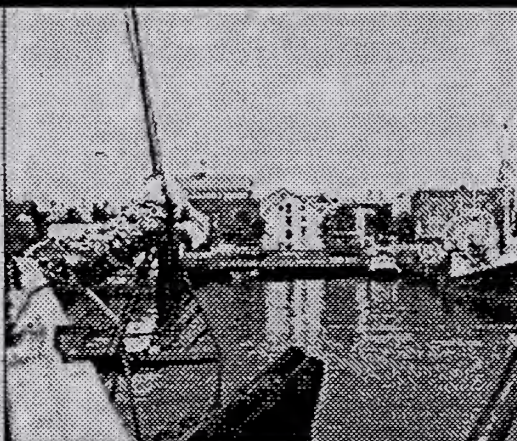
With New Bedford as Home Port

- ERNESTINA brings dockside and underway educational programs to ports and aquatic environments throughout Massachusetts.



### New Bedford Harbor - a cornerstone for change

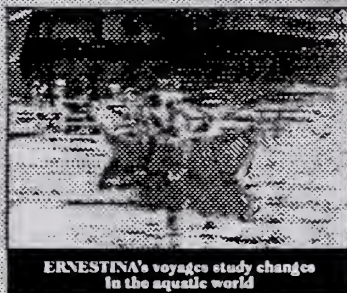
- After decades of hard work, the harbor is now a focal point for community improvement. In New Bedford, ERNESTINA offers school and out-of-school programs in the harbor and out into Buzzards Bay. As a platform of environmental and discovery, ERNESTINA is helping New Bedford students, teachers and citizens of all ages learn more about the water that surrounds their home. ☺



### New Bedford Harbor and ERNESTINA have much in common



- Much has been lost and lost time, time and industry. The city has been struck by the result of three great economic shifts: the Golden Age of Whaling, a great industrial era of textile production and a period in which the New Bedford fishing fleet was without equal in terms of tonnage and distribution. One of its last great boats, the bark schooner, ERNESTINA was a "Topsider" of the New England fleet in the 1930's. Today, she lives onshore and continues a new chapter in the life of the city, a new chapter in the life of the harbor, a new chapter in the life of the city. ☺



ERNESTINA's voyages study changes in the aquatic world

- Observing fish, shellfish, plankton and bird life as indicators of environmental quality. Traps and nets are used for sampling, monitoring methods and techniques often used by private, state and federal agencies. ☺



Water is the connection

- Between the living and non-living world, between life in the sea and life on shore. ERNESTINA's activities lead to a growing understanding of these two connections. Students often discover that they have a role, individually and collectively, in protecting the coastal environment. ☺



Observing the human-built environment

- From on board, ERNESTINA gives a new perspective of commerce, industry and housing and helps develop an informed appreciation of the connections between people, land and water. ☺

### Beyond Buzzards Bay

- The bay is linked to Vineyard Sound and, via the Cape Cod Canal, Massachusetts Bay. ERNESTINA also explores these areas. Her voyages of discovery help students understand the linkage between these bodies of water, between earth and ocean and, most importantly, between the impact of our actions and the stewardship of our natural resources. ☺

**Schooner ERNESTINA links resources and action. Ask ERNESTINA staff and members how you can get involved in your local area.**



# MASSACHUSETTS

An Expedition to -

## Fall River and Mt. Hope Bay

ERNESTINA brings deckside and underway educational programs to ports and aquatic environments throughout Massachusetts

- The Mt. Hope Bay region provides a remarkable setting for studying the impact of rural and urban society on the natural world.



### Fall River stands at the mouth of the Taunton River

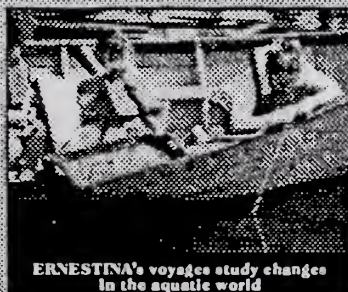


- Whether it's a matter of understanding more than just what is there, but how it works. From the salt water ocean with the tidal currents. Much of the water chemistry, the physical properties of water and how water moves in the estuary, from Fall River to the sea, will help students and researchers understand the complex connections between the fresh water and salt water environments.

### The waters of Mt. Hope Bay have changed



- As more people have come here to live, work and play. The bay is an important resource not only for both Massachusetts and Rhode Island, with large urban populations, numerous smaller communities and a rich natural heritage along its shores. The ecosystem has witnessed changes brought by more than three centuries of human impact. Voyages of ERNESTINA study these changes, examine the impact in its many forms and promote careful and informed consideration of the challenges of resource conservation.



ERNESTINA's voyages study changes in the aquatic world

- observing fish, shellfish, plankton and bird life as indicators of environmental quality. These and more are used for sampling, monitoring methods and techniques used by private, state and federal agencies.



Water is the connection between the living and nonliving worlds

- between life in the sea and life on shore. ERNESTINA's voyages lead to a growing understanding of these two environments. Students learn to observe that there is a link, individually and collectively, in protecting the aquatic environment.



Observing the human-built environment from on board ERNESTINA

- from a new perspective of commerce, industry and housing and helps develop an informed appreciation of the interdependence between people, land and water.

### Beyond Mt. Hope Bay

- The bay is linked to Buzzards Bay, Narragansett Bay and Long Island Sound. ERNESTINA also explores these areas. Her voyages of discovery build an understanding of the linkage between these bodies of water, between earth and ocean and, most importantly, between the impact of our actions and the stewardship of our natural resources.

**Schooner ERNESTINA links resources and action. Ask ERNESTINA staff and members how you can get involved in your local area.**









